

# SUPPLYING ACCURATE NUCLEAR DATA FOR ENERGY AND NON-ENERGY APPLICATIONS

# SANDA

**Kick-off meeting** 

# **Governing Board Meeting**

E.M. Gonzalez-Romero (CIEMAT)

# **Governing Board Meeting**

- Constitution of the Governing Board
- Identification of Participants, delegations and quorum
- Chairing the Governing Board
- Consortium Agreement finalization
  - Chairman of G. B.
  - Special issues from CERN
  - Other partner requests
  - Adoption for proposed version
  - Signature process
- Decisions from the CA application
  - Advance payment distribution
- AOB

### **SANDA Governing Board Meeting**

#### Attendance, delegations and Quorum

		Present	Proxy	Count			Present	Proxy	Count	
1	CIEMAT	1		1	1	NRG	1	PSI	1	
1	ATOMKI		IFIN-HH	1	1	NTUA			0	
1	CEA	1		1	1	PSI	1		1	
1	CERN	1		1	1	PTB	1		1	
1	CNRS	1		1	1	SCK-CEN	1		1	
1	CSIC		CIEMAT	1	1	Sofia	1		1	
1	CVREZ	1		1	1	TUW	1		1	
1	ENEA	1		1	1	UB			0	
1	HZDR	1		1	1	ULODZ	1		1	
1	IFIN-HH	1		1	1	UMAINZ		PSI	1	
1	IRSN	1		1	1	UMANCH			0	
1	IST-ID		CIEMAT	1	1	UOI			0	
1	JRC	1		1	1	UPC		CIEMAT	1	
1	JSI	1		1	1	UPM	1	CIEMAT	1	
1	JYU	1		1	1	USC		Coord.	1	
1	KIT			0	1	USE	1		1	
1	NPI	1		1	1	UU	1		1	
1	NPL	1		1	0					
18	Partial sum	14	0	17	17	Partial sum	10	0	13	
	Total represented	30			Quorum =	17.5	18			
					Majority =	20.00	20			

# **Governing Board Meeting**

• Chairing the Governing Board:

Coordinator or an elected Chairperson of the Governing Board

- Options for 6.3.1.1.3
- The coordinator shall chair all meetings of the Governing Board, unless decided otherwise in a meeting of the Governing Board.(www.DESCA-2020.eu)
- A chairperson will be elected during the kick-off meeting with the following responsibilities:
  - Calling for meetings and setting the agenda for meetings of the Governing Board following the requests of the Coordinator;
  - Chairing the meetings of the Governing Board. In case of absence of the chairperson, the Governing Board will appoint an acting chairperson.

The Coordinator shall not stand for election as the chairperson of the Governing Board

Decision

Following the proposal from CNRS and by unanimity of votes, Fanny Farget (scientific director IN2P3 - CNRS) was elected as chairperson of the SANDA Governing Board.

#### SANDA structure



WP #	Work Package Title	Lead P	PM
1	Developments of new innovative detector devices	CNRS	80.8
2	New nuclear data measurements for energy and non-energy applications	CIEMAT	213
3	Target Preparation for Improvement of Nuclear Data Measurements	PSI	66.2
4	Nuclear data evaluation and uncertainties	PSI	173.2
5	Nuclear data validation and integral experiments	CEA	69.2
6	Management, ND research coordination at EU level and Education and Training	CIEMAT	27.4

#### **SANDA WP1: Developments of new innovative detector devices**

#### Task 1.1: Innovative devices from fission cross section to fission products decay studies

Subtask 1.1.1: fission cross section

GRPD - gas recoil proton detector and a MicroMegas-based time projection chamber.

#### Subtask 1.1.2: fission yields and decay data studies

Coupling the FALSTAFF spectrometer with the FIPPS gamma spectrometer at ILL.

A new gas cell with electric field guidance at IGISOL.

A new version of the BELEN detector (based on the Bonner sphere principle).

Upgrades on half-life and nuclear decay data measurement facilities to allow half-life measurements for radionuclides important to the nuclear medicine and nuclear industry.

#### Task 1.2: Innovative devices for neutron emission studies

#### Subtask 1.2.1 fast neutron spectrometer

A new compact broad band fast neutron spectrometer will be developed to characterize neutron flux.

#### Subtask 1.2.2 neutron detectors

SCONE setup based on plastic scintillator bars wrapped with a Gd loaded material to measure (n,xn).

#### Subtask 1.2.3 gamma detectors

A new HPGe prototype with adapted electronics will thus be designed and tested at CERN/n\_TOF.

#### Task 1.3: innovative devices for capture cross section measurement on actinides: 2 for

n\_TOF EAR2

One based on the CLYC inorganic scintillator acting as  $\gamma$ -ray calorimeter or as total energy detector. The second is based on total energy detectors with gamma-ray imaging capability (i-TED).

#### Task 1.4: detectors for non-energy application

Extending the techniques developed so far at n\_TOF EAR1, to a measure DDX data for the neutroninduced emission of light charged particles from carbon, nitrogen and oxygen.

#### SANDA WP2: New nuclear data measurements for energy and nonenergy applications 1/2

#### Task 2.1: Neutron induced fission and charged particle production cross sections

Task 2.1.1: Neutron induced fission cross sections Energy dependence of the nubar for the <sup>235</sup>U(n,f) cross section at JRC-Geel. Surrogate reaction excitation functions and cross sections for the <sup>239</sup>Pu(n,f), <sup>241</sup>Pu(n,γ) and <sup>241</sup>Pu(n,f). New measurements of <sup>230</sup>Th(n,f) and <sup>241</sup>Am(n,f) cross section at the CERN n\_TOF EAR2 <sup>239</sup>Pu(n,f) cross section measurement with the STEFF spectrometer

Task 2.1.2: Neutron induced charged particle production cross sections  ${}^{16}O(n,\alpha)$  reaction in the energy range from the threshold up to 20 MeV  ${}^{nat}C(n,lchp)$  reaction at NFS for improving cross section standards. New (n,chp) cross section data with a powerful array of hyper pure germanium detectors. Prompt fission neutron spectra above 10 MeV ( ${}^{235}U(n,f)$ ).

#### Task 2.2: Neutron capture cross sections

Subtask 2.2.1. Capture measurements of fissile isotopes Combined measurement of the  ${}^{239}Pu(n,\gamma)$  and  ${}^{239}Pu(n,f)$  cross sections at GELINA and n\_TOF.

Subtask 2.2.2. Capture measurement of stable isotopes  ${}^{92,94,95}Mo(n,\gamma)$  cross sections at GELINA and n TOF.

# Task 2.3: Neutron elastic and inelastic scattering and neutron multiplication cross sections:

Neutron inelastic cross section measurements on <sup>239</sup>Pu, <sup>233</sup>U, <sup>14</sup>N and <sup>35,37</sup>Cl. Branching ratio for <sup>209</sup>Bi, <sup>208</sup>Pb(n,tot) and <sup>238</sup>U(n,inel) cross sections at GELINA.

#### SANDA WP2: New nuclear data measurements for energy and nonenergy applications 2/2

#### Task 2.4: Decay data measurements

Subtask 2.4.1. Beta decay measurements with TAGs High precision decay data for fission products from major and minor actinides with DTAS detector.

#### Subtask 2.4.2. Beta delayed neutron measurements New measurements with the BELEN detector.

Subtask 2.4.3. Measurement of half-live and γ-ray emission probabilities of beta emitters Measurement of half-lives for : <sup>106</sup>Ru, <sup>153</sup>Sm, <sup>166</sup>Ho, <sup>186</sup>Re, <sup>212</sup>Pb, <sup>225</sup>Ac and <sup>223</sup>Ra Accuracy measurements of high priority isotopes defined in the framework of NFRP-2018-6 for SNF.

#### Task 2.5: Fission yields measurements

Subtask 2.5.1. Fission yield studies in (n,f) reactions <sup>235</sup>U at ILL by coupling the first arm of FALSTAFF to the new FIPPS γ-ray spectrometer. Fission yield studies with the LOHENGRIN spectrometer at ILL. New method based on the PI-ICR technique for general fission product yield studies at JYFL.

Subtask 2.5.2. Fission yield studies in inverse kinematics Test of (p,2p) as surrogate reactions for fission experiments (fission of <sup>237</sup>Pa).

#### Task 2.6: New measurements for non-energy applications:

Subtask 2.6.1. Spectrum averaged cross sections for dosimetry Activity induced in foils by neutrons from a <sup>252</sup>Cf source via the <sup>117</sup>Sn(n,inl)<sup>117m</sup>Sn and <sup>60</sup>Ni(n,p).

Subtask 2.6.2. Measurement of cross sections relevant for hadron therapy Measurement of double-differential charged-particle emission cross sections at n\_TOF in the range from 20 MeV to 200 MeV.

#### Subtask 2.6.3. Measurement of beta+ emitters High priorities of IAEA: <sup>11</sup>C, <sup>13</sup>N, <sup>15</sup>O, <sup>30</sup>P produced by protons <250 MeV (also <sup>10</sup>C, <sup>12</sup>N, <sup>38m</sup>K and <sup>29</sup>P).

#### **SANDA WP3: Target Preparation for Improvement of Nuclear Data** Measurements

#### Task 3.1: Intensification of the "producer – user – interaction"

A series of regular meetings of target makers with the users to better communicate the requirements from both sides. Support bilateral meetings and organize user workshops.

#### Task 3.2: Fostering the network of target makers

Sharing knowledge, equipment and resources as a key issue for efficient work in this high-cost and manpower intensive activity. Especially for producing radioactive targets, there are only a few laboratories in Europe, which are able and allowed to handle such material.

#### Task 3.3: Target production

A limited number of targets can be produced according to requests from collaboration members. Both PSI and JRC will be responsible for the manufacturing of the final target.

#### Task 3.4: Development of an isotope separator

Definition and development of the design of an isotope separator meeting the requirements for the special application as target production facility and the preparation of the site for the installation. The final aim is to install at **PSI** a dedicated modern high efficiency, high transmission, high throughput mass separator designed for these special applications.

#### SANDA WP4: Nuclear data evaluation and uncertainties

#### Task 4.1: Nuclear reaction code developments and evaluations

Task 4.1.1: TALYS development

Test influence of theoretical parameters and improve prompt fission neutron and gamma observables.

#### Task 4.1.2: Nuclear reaction evaluation

Improve evaluation methodologies for nuclear data and the associated uncertainties, by making use of Bayesian inference and "model defect" methods. Provide <u>all evaluations with covariance</u> information. <u>New evaluations</u>: new (n,xn $\gamma$ ) for the main actinides, Cr, actinides (U235, U238, Pu239, and Am241), important fission products (Sm, Nd, Cs, Mo, Ru, Eu, Gd, Rh) and the Pu isotopic chain (Pu238-Pu244)

#### Task 4.2: Fission yields and nuclear structure and decay data evaluations

#### Task 4.2.1: Evaluation of Fission yields

Deeply test some model assumptions used in the fission yield evaluations using the measurements of kinetic energy dependency of yields, isomeric ratios or isotopic distributions.

#### Task 4.2.2: Evaluation of nuclear structure and decay data

Perform ENSDF (Evaluated Nuclear Structure Data File) evaluations: theoretical calculations, evaluations, modern evaluation tools and nuclear data library production, to improve the next version of the JEFF Radioactive Decay Data Library and the Evaluated Nuclear Structure Data File.

#### Task 4.3: Processing and sensitivity

Best processing parameters for processing CE libraries with the AMPX system + checking, processing and verification of evaluated nuclear data files. Sensitivity calculations for fission yields.

#### Task 4.4: Applications

Selection/classification of benchmarks for nuclear data sensitivities and validation of nuclear data.

#### Task 4.5: High-energy model uncertainties

Investigate if the present methodology, using the Bayesian framework developed at CHANDA, can be generalized to the whole set of parameters of INCL and extended to ABLA.

# Task 5.1: Impact studies, sensitivity analyses, and assessment of needs for various applications

Subtask 5.1.1: Impact studies and sensitivity analyses

Impact of (JEFF) nuclear data uncertainties and systematic errors on reactor engineering design and safety parameters will be evaluated in a quantitative manner for innovative nuclear systems (and fuel cycles): sodium-cooled fast reactors such as ASTRID or ESFR, lead-cooled fast reactors such as MYRRHA and ALFRED, and the JHR.

+ Nuclear data sensitivity/impact on Criticality-safety and Decommissioning and waste disposal.

#### Subtask 5.1.2: Assessment of (JEFF) nuclear data need

Update of the OECD/WPEC/SG26 report and Recommendations will be made as to which nuclear data are in need of improvement and what "performance" gains can be expected as a consequence.

#### Task 5.2: Validation studies (using existing experiments)

Subtask 5.2.1: Assessing correlations in integral experiments Assessments of "missing correlations in integral experiments" problem plus Simulations will be made to estimate the correlations.

#### Subtask 5.2.2: C/E validation and trends

C/E validations and sensitivity/uncertainty analysis on reactor physics experiments (IRPhE), shielding benchmarks (SIMBAD), criticality benchmarks and pile oscillation experiments (MINERVE/CERES). The results derived from these studies will be combined to validate nuclear data and analyze possible biases.

Gaps in the validation will be identified and discussed

#### SANDA WP5: Nuclear data validation and integral experiments 2/2

#### Task 5.3: New integral experiments

Subtask 5.3.1: Experiments at GELINA and MINERVE

Neutron transmission measurements at the JRC GELINA facility using the same samples used in the MINERVE/CERES measurements.

Samples are UO<sub>2</sub> matrix with a small admixture of a fission product: Sm, Nd, Cs, Mo, Ru, Eu, Gd, Rh Combined analysis of MINERVE/GELINA to improve the fission product cross section in the resonances

#### Subtask 5.3.2: Experiments at LR-0

- Full characterization of a critical <sup>235</sup>U-fuelled configuration for an IRPhEP-quality type benchmark;
- Direct and indirect measurements of the <sup>235</sup>U prompt fission neutron spectrum;
- Measurements of spectrum-averaged cross sections in well-characterized neutron spectra (graphite)

#### Subtask 5.3.3: Experiments at TAPIRO

Measure minor actinide spectrum-averaged fission and capture cross sections.

# **SANDA WP6:** Management, ND research coordination at EU level and Education and Training

Task 6.1: Management

# Task 6.2: Sustainable framework for the coordination of the European nuclear data research

#### Task 6.3: Coordination of Education and training activities

#### Task 6.4: Coordination of Dissemination and Communication activities





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# **Iteration Process**:

First version: May 6th, 2019 Accepted by 18 partners Modifications suggested by 13 partners No answer from 3 partners

Second version: August 16th, 2019 Accepted by 10 partners Modifications suggested by 8 partners No answer from 16 partners



Version 3: in preparation status.

# Incorporated new comments from: CSIC, JYU, NIPNE, SCK-CEN, UManch, UU

Analyzing comments from: CERN, IRSN, JSI, KIT, TuWien, UPC



# **Hottest topics:**

#### - 11.8 Settlement of disputes Mediation/arbitration/Courts of Brussels

the wording of the settlement of disputes section has a special relevance since some partners should settle their disputes only through mediation and other partners only by arbitration.

- Status, law and obligations for CERN as international organization
- Use of Results for public missions (IRSN)
- Rights and obligations of Linked Third Parties and Affiliated Entities



# **Changes from version 2 (CERN status):**

#### 5.5 Injury to the personnel of a Party Each Party is responsible for the insurance coverage of its own employees in accordance with applicable national legal requirements for occupational injuries and diseases. As a consequence, each Party must fulfil the required formalities and sustain all the costs, if any, involved in the insurance policies underwritten to cover its own employees against these Kike risks. On the other hand, As an exception for International Organizations, CERN shall be After a request from CERN responsible for the insurance coverage of its own employees in accordance with applicable legal requirements Each Party dispatching employees to another Party to work jointly on issues covered by this Consortium Agreement under premises or supervision or in installations of the receiving Party will be informed immediately on any incident or injury occurring to the dispatched employees. Information provided to the dispatching Party has to enable the dispatching Party to proceed to the formalities required by law within the prescribed time. Kike As an exception for International Organizations, CERN shall promptly inform another Party of After a request from CERN any accident or injury to that other Party's personnel having occurred within its premises or installations and under its supervision with a view to permitting the other Party to proceed with any formalities required by law. Garcia Cuesta, Juan Carlos After a request from KIT In order to respect the employee's right to data protection, the Consortium Partner must ask the employee to consent to the disclosure of personal data if there is no other legal basis for it. If the employee refuses consent, personal data must not be transmitted. Information on

incidents must be anonymized accordingly.



# **Changes from version 2 (CERN status):**

#### Section 8.2





### **Changes from version 2 (CERN status):**

#### 11.5 Mandatory national law

Nothing in this Consortium Agreement shall be deemed to require a Party to breach any mandatory statutory law under which the Party is operating.

#### 11.6 Language

This Consortium Agreement is drawn up in English, which language shall govern all documents, notices, meetings, arbitral proceedings and processes relative thereto.

#### 11.7 Applicable law

This Consortium Agreement shall be construed in accordance with and governed by the laws of Belgium excluding its conflict of law provisions.

As an exception, the Agreement is governed by a different applicable law for CERN, where the applicable law will be the applicable EU law, supplemented if necessary by the law of France and, where appropriate, by the general principles governing the law of international organisations and the rules of general international law.



After a request from CERN

Kike After a request from CERN

# Changes from version 2 (CERN status): HORIZON 20

determined by arbitration in accordance with the WIPO Expedited Arbitration Rules. The award of the arbitration will be final and binding upon the Parties The place of arbitration shall be Brussels unless otherwise agreed upon. The language to be used in the arbitral proceedings shall be English unless otherwise agreed upon.

If, and to the extent that, any such dispute, controversy or claim has not been settled pursuant to the arbitration within 60 calendar days of the commencement of the arbitration, the courts of Brussels shall have exclusive jurisdiction.

However, should any Party (e.g. a Public Body) show that certain provisions of its national law prevents it from submitting the relevant dispute to arbitration, then the concerned Parties will submit the dispute to the Courts of Brussels.

Nothing in this Consortium Agreement shall limit the Parties' right to seek injunctive relief in any applicable competent court.

Any disputes involving CERN must — if they cannot be settled amicably — be reterred to arbitration. Each party must formally notify to the other party its intention of resorting to arbitration and the identity of the arbitrator. The Permanent Court of Arbitration Optional Rules for Arbitration Involving International Organisations and States in force at the date of entry into force of the Agreement will apply. The appointing authority will be the Secretary-General of the Permanent Court of Arbitration following a written request submitted by either party. The arbitration proceedings shall ake place in Brussels and the language used in the arbitral proceeding shall a English. The arbitral award will be binding on all parties and will not be subject to appeal.

#### 11.9 Personal Data

In the event of personal data processing, within the framework of this agreement, the Parties undertake to fulfill their obligations in accordance with the respective applicable legal frameworks, that for all partners except CERN includes regulations and, especially, the regulation (EU) 2016/679 of the European Parliament and of the Council of 27 April 2016 applicable since 25 May 2018.

Kike After a request from CERN

Kike After a request from CERN



#### After a request from KIT

#### 4.3 Involvement of third parties

A Party that enters into a subcontract or otherwise involves third parties (including but not limited to Affiliated Entities) in the Project remains responsible for carrying out its relevant part of the Project and for such third party's compliance with the provisions of this Consortium Agreement and of the Grant Agreement and for the consequences arising from such third party's non-compliance. It has to ensure that the involvement of third parties does not affect the rights and obligations of the other Parties under this Consortium Agreement and the Grant Agreement.

#### After a request from JYU (Finnish legal system) + IRSN

5.2.2 Notwithstanding the foregoing, no Party shall be responsible to any other Party for any indirect or consequential loss or similar damage such as, but not limited to, loss of profit, loss of revenue or loss of contracts, provided such damage was not caused by a willful act or gross negligence.

#### After a request from CERN

5.4 Force Majeure

No Party (neither its Affiliated Entities)-shall be considered to be in breach of this Consortium Agreement if it is prevented from fulfilling its obligations under the Consortium Agreement by Force Majeure.

SANDA kick-off meeting

September 9 & 10, 2019

Brussels



#### After a request from UPC

6.3.2.1 The Executive Committee shall consist of the Coordinator and the Work Package leaders. The Coordinator shall chair all meetings of the Executive Committee, unless decided otherwise by a majority of two-thirds of those present and represented (provided that the quorum established in Section 6.2.3.1 is satisfied).

Note that 6.3.2.3.8 indicates: The Executive Committee may invite international experts to its meetings, in particular from **IAEA**, **JEFF** and **NEA**. They will only participate in an advisory function without voting rights.

#### After a request from UPC

8.5 The objecting Party can request a publication delay of not more than 45 calendar days from the time it raises such an objection. After 45 calendar days the publication is permitted. For the avoidance of doubt, the publication is permitted subject to provisions of Section 8.5.1. "Dissemination of another Party's unpublished Results or Background" and Section 10 "Non-disclosure of information". If the objections are not appropriately addressed, publication will not be authorized.

#### After a request from KIT

8.5.2 Cooperation obligations

The Parties and Linked Third Parties undertake to cooperate to allow the timely submission, examination, publication and defence of any dissertation or thesis for a degree that includes their Results or Background subject to the confidentiality and publication provisions agreed in this Consortium Agreement.

SANDA kick-off meeting

September 9 & 10, 2019

**Brussels** 



#### After a request from IRSN and KIT

9.4.1 Access Rights to Results

Access Rights to Results if Needed for Exploitation of a Party's own Results shall be granted on Fair and Reasonable conditions, subject to a separate written agreement between the parties concerned. Access rights to Results for **non-commercial** internal research and **development activities**, teaching and public service mission, shall be granted on a royalty-free basis

After a request from CNRS (equivalent documents already available) Remove the Attachment 5: Declaration Form by Linked Third Parties - SANDA Consortium Agreement.



#### After a request from IRSN and CERN 11.10 Export control

In case export control license is required for exchange of any information in the frame of this Consortium Agreement according to Regulation CE n°428/2009 the party(ies) to whom the information has to be transferred shall signed an End-User Certificate or any similar mandatory document under each national law of the exporter Party for the use of the information. No information shall be transferred or use before the appropriate export control licence had been issued by the competent national authority.

All Parties are obliged to execute their obligations under this Agreement in accordance with all the applicable international- and national laws and regulations. This also includes all applicable laws and regulations on export control. When parties shall provide items (goods, software or technology), then the Parties shall where necessary take care of the timely and complete submission of the export license application. The other Parties shall timely provide all information that is reasonably relevant for the license submission, including information regarding any possible intention to re-export to other countries. If and when one or more export licenses are not obtained or not timely obtained, without this being attributable to the exporting Party, then the consequences thereof are not attributable to the exporting Party and neither shall such lead to any entitlement to compensation for damages.

(From previous section 12: Dual Use in the Consortium Agreement).

SANDA kick-off meeting

September 9 & 10, 2019

**Brussels** 



### **Missing Background Declarations (Attachment 1):**

CEA (draft version proposed)	CVREZ
IST-ID	NPI
Sofia	UB
USC	

Several partners used the following formula, that might be used by some of the partners pending:

As to *PARTNER full name, PARTNER\_acronym*, it is agreed between the Parties that, to the best of their knowledge no data, know-how or information of *PARTNER\_acronym* shall be Needed by another Party for implementation of the Project (Article 25.2 Grant Agreement) or Exploitation of that other Party's Results (Article 25.3 Grant Agreement).

This represents the status at the time of signature of this Consortium Agreement.

# **Governing Board Meeting - Payments**

- Payments from the EC
  - pre-financing payment;
  - one or more interim payments, on the basis of the request(s) for interim payment,
  - one payment of the balance
- Pre-financing payment to CIEMAT Net payment: 1541808.68 Euros
  - The pre-financing payment will be 1866638.93 Euros.
  - Payment to CIEMAT started.
  - An amount of EUR 174997.40 Euros (5% of the maximum grant amount is retained by EC and transferred into the 'Guarantee Fund'.
  - Moreover, the part of the pre-financing for JRC 165332.80 Euros is not paid to the coordinator, but kept by the Commission for the JRC.
- In order to transfer payment from coordinator to beneficiaries:
  - Consortium Agreement finalized and signed
  - Bank identification forms sent to Coordinator (Signed and with stamps). Missing: CEA, HZDR, JSI, KIT, NTUA, Sofia, UB, ULodz, UMainz, UManch, USC.
- Distribution of Pre-financing payment from coordinator to beneficiaries
   Proportional to the "Maximum grant amount" of each beneficiary
   Payment as soon as the conditions of the previous point are met.

Decision: The proposed distribution of the pre-financing was accepted by unanimity.