



SANDA



SUPPLYING ACCURATE NUCLEAR DATA FOR ENERGY AND NON-ENERGY APPLICATIONS

General Meeting 2021

WP6- Task 6.1: Management

CIEMAT, JRC

E.M. Gonzalez-Romero (CIEMAT)

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

Task 6.1: Management : CIEMAT, JRC

This task will handle the [management of the consortium](#), including:

- the administrative and financial operations,
- the notification of the consortium agreement preparation,
- the draft version for the rules of operation of the different management bodies and
- the reporting to the EU.

One specific objective will be the coordination of the three [periodic reports and the final report](#) of the project.

To facilitate the dissemination of the project progress and results and the exchange of information within the project a [Web site](#) will be prepared and open by the project. All consolidated information will be fully open, but a restricted access area will be reserved for materials under discussion within the project participants.

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

Task 6.1: Management : CIEMAT, JRC

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- the administrative and financial operations,
 - the notification of the consortium agreement preparation,
 - the draft version for the rules of operation of the different management bodies and
 - the reporting to the EU.
-
- **Consortium agreement** was completed was signed between November 2019 and January 2020. EC was notified. Available from SANDA web:
http://www.sanda-nd.eu/system/files/docs/V4%20SANDA_CA_V6-15_11_2019_final_signed.pdf
 - Administrative and Financial operations. **First payment** was completed for most partners on January 2020 (as soon as the CA was signed). Some delayed because of problems in their bank account. All payments completed in April 2020.
 - **Forms for Deliverables and Milestones** available from SANDA web:
<http://www.sanda-nd.eu/documents-partners>
 - Reporting to Officer (EC): Situation of the project because of **COVID-19**
 - Verbal reporting + preparation of a written note + Executive meeting
 - **EXCOM meeting** September 10th, 2020 available at SANDA web and Indico
SANDA WEB: <http://www.sanda-nd.eu/calendar/sanda-excom-meeting-01>
SANDA indico: <https://indico.cern.ch/event/951096/>

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

Task 6.1: Management : CIEMAT, JRC

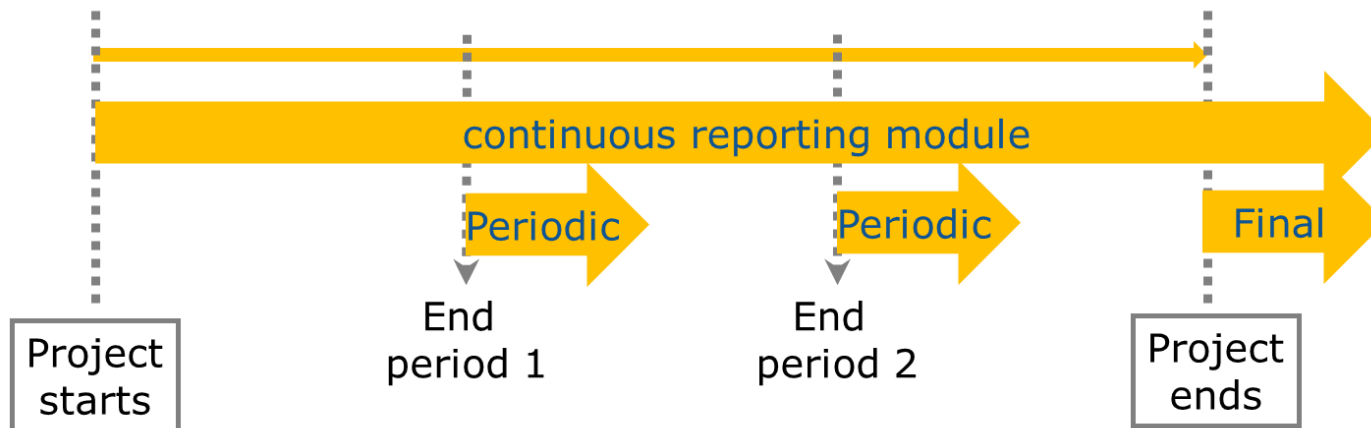
One specific objective will be the coordination of the three [periodic reports](#) and the [final report](#) of the project.

Preparations for the 18-month report.

18 months period ends on 28/02/2021. Periodic report in 60 days (29/04/20)

Introduction and [talk in the GB meeting](#) tomorrow.

- *Continuous reporting module*
- *Periodic reporting module*



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

Task 6.1: Management : Web site

The SANDA WEB is composed by two groups of web pages: a set of web pages hosted at CIEMAT computers and developed using the **DRUPAL** system and a set of **INDICO** web pages hosted by CERN.

The screenshot shows the SANDA website homepage. At the top, there is a navigation bar with links for News, Calendar, Library, Discussions, Contact, and Home. Below this, the SANDA logo is displayed, along with the tagline "Supplying Accurate Nuclear Data for energy and non-energy Applications" and the HORIZON2020 logo. The main content area features a "Welcome to SANDA!" message, followed by a section titled "Solving Challenges in Nuclear Data for the Safety of European Nuclear facilities (A Nuclear Data Euratom Project in H2020)". This section describes the project's objective and provides details about the project's duration, budget, and participants. Below this, there are sections for "External links" and "Latest news". At the bottom, there is a "SANDA activities" diagram showing a flow from "Improve targets" and "Improve n-sources" through "Differential experiments" and "Evaluation" to "Validation" and "Dissemination".

The main entry point is the DRUPAL CIEMAT hosted web pages:
<http://www.sanda-nd.eu/>

The screenshot shows the SANDA Indico web page. The top navigation bar includes the Indico logo and links for Home, Create event, Room booking, and My profile. Below this, the page title "SANDA" is displayed, along with a "Create event" button and navigation icons. The main content area shows a calendar view for February 2021, with events listed for 12 Feb (SANDA Governing Board meeting 2021) and 09 Feb - 11 Feb (SANDA General Meeting 2021). There are also sections for September 2020 and September 2019. The right sidebar shows a "Managers" section with names Daniel Cano Ott and Enrique Gonzalez Romero, and a "Materials" section with the message "There are no materials yet."

The indico web address is:
<https://indico.cern.ch/category/11566>

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

Task 6.1: Management : DRUPAL CIEMAT hosted web pages: <http://www.sanda-nd.eu/>

SANDA
Supplying Accurate Nuclear Data for energy and non-energy Applications
HORIZON2020

Welcome to SANDA!
Solving Challenges in Nuclear Data for the Safety of European Nuclear facilities
(A Nuclear Data Euratom Project in H2020)

The SANDA project objective is to produce accurate and reliable nuclear data tools including data, codes and methodologies that can be used to simulate, analyse, optimize, exploit and evaluate the safety of nuclear energy and non-energy applications.

SANDA is a Research and Innovation Action (RIA) responding to the EURATOM call for Nuclear Fusion and Radiation Protection 2018 (NFRP-2018-4). The project started on September 1st, 2019 for a duration of 40 months with 35 participants from 19 countries with a total budget of 4.7 M€ and a EC contribution of 3.5 M€.

Nuclear data and associated tools are a critical element of the nuclear energy industry and research, playing an essential role in the simulation of nuclear systems or devices for nuclear energy and non-energy applications, for the assessment of safety and performance of existing and future reactors and other nuclear facilities, for the innovation of the design of those nuclear facilities and the innovation on radioactive devices and for the use of radioactive materials in non-energy applications, and for the interpretation of measurements in these facilities and systems.

No matter how sophisticated a tool is, no simulation, calculation or interpretation of measurements can be better than the limit imposed by the nuclear data they use. Several parameters, particularly safety parameters of reactors and other nuclear facilities, need to be known with a precision well below 0.1% resulting in nuclear data precisions better than a few percent, sometimes better than 2%. In other cases the precision needed can range from 5 to 20% but the isotope or material to be measured is highly radioactive or very scarce. Despite several decades of nuclear data research these levels of precisions have still not been reached for all the isotopes and reactions required and their determination raise important challenges.

SANDA activities

```
graph TD
    A[Improve targets] --> B[Improve n-sources]
    B --> C[Evaluation]
    C --> D[Validation]
    D --> E[Dissemination]
    E --> F[Coordination with IAEA/ENEA/ENIS/JEF]
    G[Improve methods & codes] --> C
    H[Improve methods & set of BM] --> D
    I[Coordination with IAEA/ENEA/ENIS/JEF] --> E
    J[Improve detectors] --> A
    K[Improve methods] --> B
    L[Improve uncertainty] --> C
    M[New integral experiments] --> D
    N[Coordination with JEFF] --> E
```

The quality and completeness of the nuclear databases is continuously improving thanks to large collaborative projects and indeed the tools developed in previous projects like ANDES and CHANDA, plus those being developed within SANDA, will bring at reach the target precision for some important isotopes/reactions. The

This part of the SANDA Web includes:

- General information
- Contractual documents
- News related to the project
- A calendar of events related to the project
- A library (searchable data-base) of journal papers, presentations, deliverables, and other documents related to the project
- Links to other web-pages related to the project
- Access to open data repositories

Most of this WEB is public and can be read without any limitation and without any login. Only some pages and documents at preliminary state are restricted and require to login using a password provided to the SANDA participants.

A generic account ([SANDA-user](#) *Password*) has been created and the password is provided to the members of the project allowing to view all elements of the WEB.

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

Task 6.1: Management : DRUPAL CIEMAT hosted web pages: <http://www.sanda-nd.eu/>

The screenshot shows the SANDA website homepage. At the top is a navigation menu with links for SANDA, News, Calendar, Library, Discussions, Contact, Home, My account, and Log out. Below the menu are three logos: the SANDA logo with the tagline 'Supplying Accurate Nuclear Data for energy and non-energy Applications', the European Union flag, and the HORIZON2020 logo. The main heading is 'SANDA'. Below this is a 'Welcome to SANDA!' section with the sub-heading 'Solving Challenges in Nuclear Data for the Safety of European Nuclear facilities (A Nuclear Data Euratom Project in H2020)'. The text describes the project's objective and details. To the right, there is a search bar and three sections: 'About SANDA' with a list of links, 'External links' with a list of links, and 'Latest news' with a list of news items.

SANDA News Calendar Library Discussions Contact Home My account Log out

 **SANDA**
Supplying Accurate Nuclear Data for
energy and non-energy Applications

 **HORIZON2020**

SANDA

Welcome to SANDA !

***Solving Challenges in Nuclear Data for the Safety of European Nuclear facilities
(A Nuclear Data Euratom Project in H2020)***

The SANDA project objective is to produce accurate and reliable nuclear data tools including data, codes and methodologies that can be used to simulate, analyse, optimize, exploit and evaluate the safety of nuclear energy and non-energy applications.

SANDA is a Research and Innovation Action (RIA) responding to the EURATOM call for Nuclear Fission and Radiation Protection 2018 (NFRP-2018-4). The project started on September 1st, 2019 for a duration of 48 months with 35 participants from 19 countries with a total budget of 4.7 M€ and a EC contribution of 3.5 M€.

Nuclear data and associated tools are a critical element of the nuclear energy industry and research, playing an essential role in the simulation of nuclear systems or devices for nuclear energy and non-energy applications, for the assessment of safety and performance of existing and future reactors and other nuclear facilities, for the innovation of the design of those nuclear facilities and the innovation on radioactive devices and for the use of radioactive materials in non-energy applications, and for the interpretation of measurements in these facilities and systems.

No matter how sophisticated a tool is, no simulation, calculation or interpretation of measurements can be better than the limit imposed by the nuclear data they use. Several parameters, particularly safety parameters of

Search 

About SANDA

- Documents for partners
- Partners
- Access to Open Research Data from the project

External links

- Indico page for SANDA
- CHANDA web page
- ANDES web page
- ARIEL web page
- SNETP
- EERA nuclear materials

Latest news

- SANDA General Meeting and GB meeting 2021 will be organized on 9, 11 and 12 February (1)

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

Task 6.1: Management : DRUPAL CIEMAT hosted web pages: <http://www.sanda-nd.eu/>

The screenshot shows the SANDA website home page. The navigation menu includes SANDA, News, Calendar, Library, Discussions, Contact, Home, My account, and Log out. The main content area features the SANDA logo and the text "Supplying Accurate Nuclear Data for energy and non-energy Applications" alongside the HORIZON2020 logo. Below this is a "News" section with a list of items:

- SANDA General Meeting and GB meeting 2021
- SANDA General Meeting and GB meeting 2021 will be organized on 9, 11 and 12 February 2021
- SANDA & ARIEL joint kick-off meetings

The SANDA kick-off meeting was organized jointly with the ARIEL kick-off meeting to facilitate the collaboration between both EURATOM projects related to nuclear data. The agenda and presentations of the meeting can be found at the SANDA Indico Web page and in the SANDA Library.



- SANDA kick-off meeting
- The SANDA kick-off meeting was organized in September 9th and 10th of 2019 at Brussels. The agenda and presentations of the found at the SANDA Indico Web page and in the SANDA Library (search for titles starting by KOM-).



The screenshot shows the SANDA website calendar page. The navigation menu is the same as the home page. The main content area features the SANDA logo and the text "Supplying Accurate Nuclear Data for energy and non-energy Applications" alongside the HORIZON2020 logo. Below this is a "Calendar" section with a calendar for February 2021. The calendar shows the following events:

Mon	Tue	Wed	Thu	Fri	Sat	Sun
1	2	3	4	5	6	7
8	9	10	11	12	13	14
15	16	17	18	19	20	21
22	23	24	25	26	27	28

The events are: "SANDA kick-off meeting 2021" on February 9th and 10th, and "SANDA Governing Board meeting 2021" on February 11th and 12th.

The screenshot shows the SANDA website page titled "Access to Open Research Data from the project". The navigation menu is the same as the home page. The main content area features the SANDA logo and the text "Supplying Accurate Nuclear Data for energy and non-energy Applications" alongside the HORIZON2020 logo.

Access to Open Research Data from the project



All data produced by the project will be made openly available as soon as it reaches a consolidated credibility within the participants of the project. For the nuclear data produced by the project, either experimental or evaluated, the main dissemination path is the well-established international libraries and international nuclear data centers, including:

- International nuclear data centers coordinated by IAEA: [NDS @ IAEA](#).
- [NEA Data bank](#).
- Experimental data will be sent to the Experimental Nuclear Reaction Data ([EXFOR](#)).
- Most evaluated data (cross sections, decay data, fission yields,...) will be sent to IAEA ENDF area.
- Evaluated nuclear structure data will be sent to the [ENSDF IAEA repository](#).

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

Task 6.1: Management : DRUPAL CIEMAT hosted web pages: <http://www.sanda-nd.eu/>

SANDA News Calendar Library Discussions Contact Home My account Log out

 SANDA Supplying Accurate Nuclear Data for energy and non-energy Applications  HORIZON2020

Library search results

Title: **Authors:**

Type: **Workpackage:**

And

Upload date: **Start date** **End date**

Keywords:

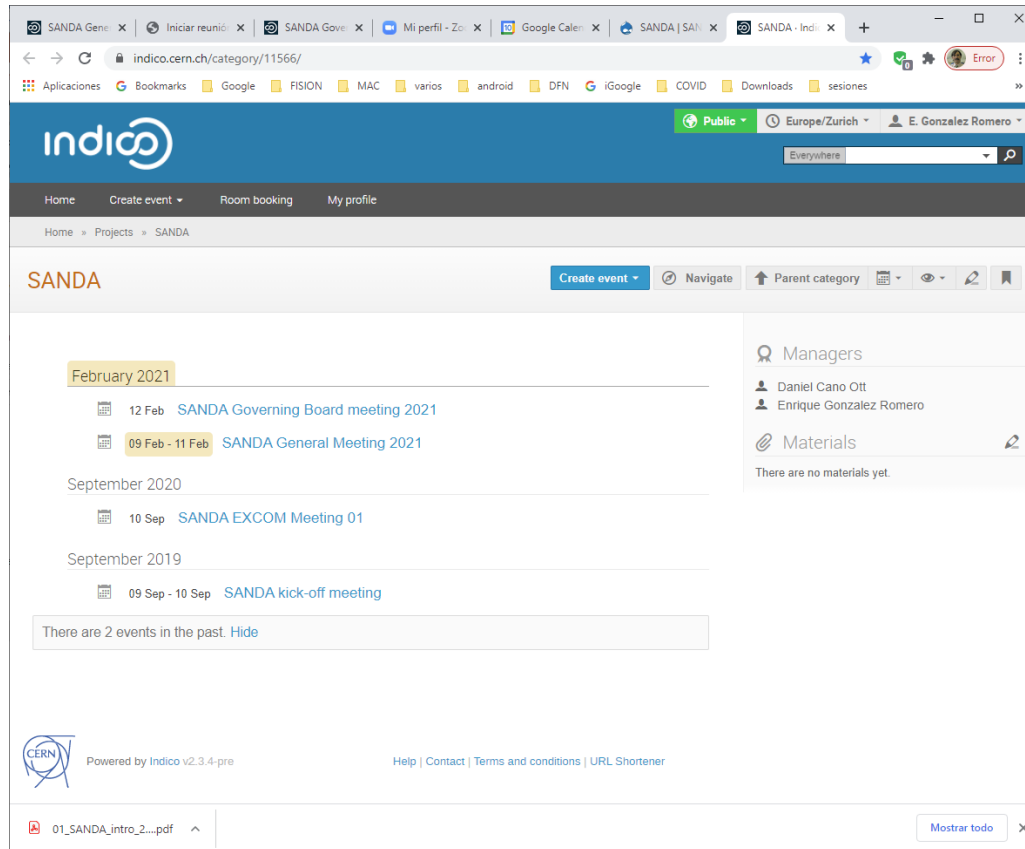
1. KOM-14 SANDA kick-off meeting pictures | E. Gonzalez
Wed, 12/08/2020 - 14:39
2. KOM-13 Governing Board meeting of the kick-off meeting | E. Gonzalez
Wed, 12/08/2020 - 14:35
3. KOM-12 Consortium Agreement status | E. Gonzalez
Wed, 12/08/2020 - 14:34
4. KOM-11 Continuous reporting (Deliverables, Milestones, papers and dissemination) | E. Gonzalez
Wed, 12/08/2020 - 14:31
5. KOM-10 Formal obligations and financial reporting | E. Gonzalez
Wed, 12/08/2020 - 14:30
6. KOM-09 SANDA relation with JEFF | A. Plompen
Wed, 12/08/2020 - 14:28
7. KOM-08 WP6: Management, research coordination and Education and Training | E. Gonzalez
Wed, 12/08/2020 - 14:27
8. KOM-07 WP5: Nuclear data validation and integral experiments | R. Jacqmin
Wed, 12/08/2020 - 14:25
9. KOM-06 WP4: Nuclear data evaluation and uncertainties | D. Rochman
Wed, 12/08/2020 - 14:23
10. KOM-05 WP3: Target Preparation for Improvement of Nuclear Data Measurements | D. Schumann

Recent uploads

- KOM-14 SANDA kick-off meeting pictures
E. Gonzalez
12/08/2020 - 14:39
- KOM-13 Governing Board meeting of the kick-off meeting
E. Gonzalez
12/08/2020 - 14:35
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SANDA WP6: Management, ND research coordination at EU level and Education and Training

Task 6.1: Management : The indico web address is: <https://indico.cern.ch/category/11566>



The screenshot shows the INDICO web interface for the SANDA project category. The browser address bar displays indico.cern.ch/category/11566/. The page features a blue header with the INDICO logo and navigation options like 'Home', 'Create event', 'Room booking', and 'My profile'. Below the header, the category name 'SANDA' is prominently displayed. A list of events is shown, including 'SANDA Governing Board meeting 2021' on February 12, 'SANDA General Meeting 2021' from February 9-11, 'SANDA EXCOM Meeting 01' on September 10, 2020, and 'SANDA kick-off meeting' from September 9-10, 2019. A sidebar on the right lists 'Managers' (Daniel Cano Ott and Enrique Gonzalez Romero) and 'Materials' (none listed). The footer includes the CERN logo and text: 'Powered by Indico v2.3.4-pre' and 'Help | Contact | Terms and conditions | URL Shortener'.

- The CERN INDICO system, is dedicated to the organization, management, provide videoconference support and storage of the presentations for complex conferences, workshops and meetings.
- Taking advantage that CERN is one participant on the SANDA project, SANDA has been allocated the status of “project“ with the corresponding web structure.
- Direct links to some events or documents in this INDICO web structure are directly available from the main SANDA WEB.

The INDICO SANDA WEB is public and can be read without any limitation but might require a CERN account (a *light* CERN account can be requested from the WEB).

Only some partners can modify certain elements of the WEB. But people with CERN account can upload material for the presentations.

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

Task 6.1: Management : The indico web address is: <https://indico.cern.ch/category/11566>

The image displays two screenshots of the INDICO web interface, showing meeting agendas for SANDA events.

Left Screenshot: SANDA EXCOM Meeting 01
URL: indico.cern.ch/event/951096/
Date/Time: Thursday 10 Sep 2020, 09:00 → 13:00 Europe/Madrid
Type: VIDEOCONFERENCE
Description: First SANDA Executive Committee meeting (REMOTE)

Agenda:

- 09:00 → 09:15 Introduction from the coordinator**
Speaker: Enrique Gonzalez Romero (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas)
Attachment: SANDA_EXCOM_P0...
- 09:15 → 09:45 WP1 status, Impact of COVID, Risks, Specific Changes**
1) Present status of the project including the level of progress on the different tasks, milestones and deliverables
2) Impact of the COVID-19 crisis on the project execution and letter to the EC
3) Risks in the critical path for the project
4) Specific proposals for changes in the project scope
Speaker: Prof. Maelle Kerveno (CNRS)
Attachment: MKerveno-EXCOM...
- 09:45 → 10:15 WP2 status, Impact of COVID, Risks, Specific Changes**
1) Present status of the project including the level of progress on the different tasks, milestones and deliverables
2) Impact of the COVID-19 crisis on the project execution and letter to the EC
3) Risks in the critical path for the project
4) Specific proposals for changes in the project scope
Speaker: Dr Daniel Cano Ött (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas)
Attachment: 2019-09-09 SANDA ...
- 10:15 → 10:30 WP3 status, Impact of COVID, Risks, Specific Changes**
1) Present status of the project including the level of progress on the different tasks, milestones and deliverables
2) Impact of the COVID-19 crisis on the project execution and letter to the EC
3) Risks in the critical path for the project
4) Specific proposals for changes in the project scope
Speaker: Maria Dorothea Schumann (Paul Scherrer Institute (CH))
Attachment: SANDA 2020 WP3.p...

Right Screenshot: SANDA kick-off meeting
URL: indico.cern.ch/event/848637/
Date/Time: 9 Sep 2019, 14:00 → 10 Sep 2019, 19:00 Europe/Zurich
Location: Brussels

Agenda:

- 14:00 → 14:30 Introduction from the coordinator** (30m)
Speaker: Enrique Gonzalez (CIEMAT)
Attachment: 01_SANDA_intro_20...
- 14:30 → 15:00 Introduction from the EC project Officer** (30m)
Speaker: Roger Garbil (EC)
Attachment: 02_SANDA KoM Ad...
- 15:00 → 15:45 Description of WP1: Developments of new Innovative detector devices** (45m)
Speaker: Maelle Kerveno (CNRS)
Attachment: 03_WP1_MKRVEN...
- 15:45 → 16:15 Coffee break** (30m)
- 16:15 → 17:00 WP2: New nuclear data measurements for energy and non-energy applications** (45m)
Speaker: Daniel Cano-Ött (CIEMAT)
Attachment: 04_WP2_2019-09-0...
- 17:00 → 17:45 WP3: Target Preparation for improvement of Nuclear Data Measurements** (45m)
Speaker: Dorothea Schumann (PSI)
Attachment: 05_WP3_Kickoff me...

The INDICO SANDA pages include the agenda of the meeting, including access to the presentation material that can be downloaded, and a list of registered participants. Pages available after the event had been completed.

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

Task 6.1: Management : The indico web address is: <https://indico.cern.ch/category/11566>

The screenshot displays the INDICO event page for the SANDA General Meeting 2021. The page is titled "SANDA General Meeting 2021" and shows the dates "9 Feb 2021, 09:00 → 11 Feb 2021, 20:00" for the "Europe/Madrid" location. The user is logged in as "E. Gonzalez Romero".

Key sections include:

- Videconference Rooms:** "SANDA General Meeting 2021" with a "Join" button.
- Registration:** "You are registered for this event." with a "Modify registration" button and a count of 73 registered users.
- Participants:** A list of names including Adrien Bidaud, Adrià Casanovas, Alberto Mengoni, Alejandro Algora, Alexander Prokofiev, Alexandru Liviu Negret, Alexey Stankovskiy, Ali Al-Adili, Andreas Solders, Antonio Jiménez-Carrascosa, and Arjan Plompen.

The agenda for **TUESDAY, 9 FEBRUARY** is as follows:

- 09:00 → 10:20 SANDA opening session** (Convener: Enrique Gonzalez Romero)
 - 09:00 Introduction to the SANDA General Meeting** (Speaker: Enrique Gonzalez Romero, 20m). Attachments: 01_SANDA_intro_20...
 - 09:20 EC comments on SANDA** (Speaker: Katerina PTACKOVA (EC), 10m).
 - 09:30 Status and news from ARIEL** (Speaker: Dr Arnd Junghans (HZDR), 25m). Attachments: T0-Junghans_ARIEL...
 - 09:55 News from NEA and JEFF** (Speaker: Arjan Plompen, 25m). Attachments: T0-Plompen.pdf, T0-Plompen.pptx.
- 10:20 → 13:00 SANDA WP 1 Innovative detectors** (Developments of new innovative detector devices). Attachment: T0-Plompen.pdf.

The URL at the bottom of the page is: <https://indico.cern.ch/event/999813/contributions/4199157/attachments/2186615/3694703/T0-Plompen.pdf>

The INDICO SANDA pages are updated during the event performance.

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

Task 6.1: Management : CIEMAT, JRC

Deliverables:

- D.6.1: “Web for the project”, CIEMAT, Month 9, Public **DONE**

<http://www.sanda-nd.eu/>

<https://indico.cern.ch/category/11566/>

COVID-19 effects:

- Some delays on deliverables
- Meeting organization as online