iSAS Website

November 12, 2024

Color Codes

- WP1 Lead
- WP2 Lead
- WP3 Lead
- WP4 Lead
- WP5 Lead
- WP6 Lead
- WP7 Lead
- WP8 Lead
- Others

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1 Home

 $\label{eq:compare} Compare with the current indico website: https://indico.ijclab.in2p3.fr/event/9521/and the temporary iSAS website: https://indico.ijclab.in2p3.fr/event/9521/$

2 Introduction

2.1 SRF Accelerators and Energy Usage

2.2 iSAS Objectives

The high-level objectives and the overall objectives of the Tasks and Integrating Activities

2.3 iSAS Impact

Similar to https://indico.ijclab.in2p3.fr/event/9521/page/374-isas-impact, but perhaps shortened.

2.4 Cross-coordination

Development of key technologies and their integration in existing / future systems and enable industrial solutions. Graphic of the TA/INTs matrix.

- 1. TA1: energy savings from the RF power
- 2. TA2: energy savings from the cryogenics
- 3. TA3: energy savings from the beam
- 4. Integrating activities (INT1 INT3)
- 5. INT1: integrate into the design of a sustainable LINAC cryomodule
- 6. INT2: integrate into existing LINAC cryomodules at RIs
- 7. INT3: integrate towards turn-key solutions and applications in industry

2.5 The iSAS Organization

Explanation of the iSAS project structure

2.6 Collaborating Institutes

Logos and links to institute websites

2.7 iSAS and Industry

2.8 Key Technologies for Energy-Efficient Accelerators

Very brief descriptions only / impact to give the reader a good overview what the R&D is about.

2.8.1 Fast Reactive Tuners

Very short/simple introduction to what FRT is all about

2.8.2 SRF Materials for 4-K operation

Very short/simple introduction to what 4-K operation is all about

2.8.3 Efficient Solid-State Amplifiers

Very short/simple introduction to what efficient SSA is all about

2.8.4 Energy-efficient HOM-power absorbers

Very short/simple introduction to energy efficient HOM absorbers

3 Workpackages

From the top level "Work Packages" link there should a button "Work Packages" that has a menu that folds out when you click it with each of the WP names (i.e. not the numbers, but the brief names, e.g. Fast Reactive Tuners, Low Level RF, 4K cavities, Coupler etc.

From this menu, you link to each of the individual WP descriptions, where the key elements are:

- Capture the overall objective of the WP in one paragraph (meta-level text that is understandable after reading the introduction).
- Capture the theme of each of the tasks in one phrase (similar to the "tasks" listed per WP in the original proposal, i.e. more detailed compared to the introduction for an expert audience)
- List the actions involved per sub-objective (similar to the bulleted tasks in the original proposal, also for an expert audience)
- One attractive key picture or plot, e.g. picture of an FE-FRT, of a 4.5K cavity
- list the institutes involved
- list the contacts, i.e. the convener and deputy (including stating their affiliation)

Details on the workpackages updated as iSAS evolves ... Presumably text input from the WP leaders, explaining the goals, main successes ...

- 3.1 WP1: Ferro-Electric Fast Reactive Tuners
- 3.1.1 Main goals
- 3.1.2 Impact
- 3.1.3 Achievements
- 3.2 WP2: Low Level RF Controls
- 3.2.1 Main goals
- **3.2.2** Impact
- 3.2.3 Achievements
- 3.3 WP3: Nb3Sn-on-Cu films for 4.2-K cavity operation
- 3.3.1 Main goals
- 3.3.2 Impact
- 3.3.3 Achievements
- **3.4** WP4: Higher-Order Mode Dampers & Fundamental Power Couplers
- 3.4.1 Main goals
- **3.4.2** Impact
- **3.4.3** Achievements
- 3.5 WP5: Integration into a new LINAC Cryomodule
- 3.5.1 Main goals
- 3.5.2 Impact
- 3.5.3 Achievements
- **3.6** WP6: Integration (Results) into Accelerator and Collider Research Infrastructures
- 3.6.1 Main goals
- 3.6.2 Impact
- 3.6.3 Achievements
- **3.7** WP7: Integration (Results) into Industrial Solutions

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- 3.7.1 Main goals
- **3.7.2** Impact
- 3.7.3 Achievements
- 3.8 WP8: Societal Impact
- 3.8.1 Main goals
- 3.8.2 Impact

4 Industry Partners: Giorgio

This part of the site is intended to be a bridge between iSAS R&D and industrial needs. This landing page describes the importance of involving industrial partners from the beginning of the project so that the process of integrating the demonstrator into industrial solutions can be efficient.

At the end of the pages logo with links to their websites of the companies involved in the project, and eventually links to sheets about technologies and/or patents developed within the iSAS project

4.1 Industrial outreach

Short videos and presentations produced by individual WPs and eventually technical links to sheets about technologies and/or patents developed within the iSAS project

4.2 Database of industries interacting with the iSAS project

From this section the database of companies interacting with iSAS (either collaborating in the project or being used for procurement) can be accessed. One will be able to browse the DB by skills, nationality, products that are supplied.

Periodic emails will be sent to the WP leader so that the necessary information can be retrieved to update the DB

4.3 Database of the active competences in iSAS project

This section is intended to be a "showcase" for companies that may want to search for specific skills and find them within the iSAS project. In addition to a brief description of the activities taking place in the project, a second database will be accessed where specific skills present within the research institutions working on the iSAS project can be searched and their respective contact information will be provided.

5 News & Job Postings: Adele

• TBD: News article-type structure similar to the current iSAS website, to separate into 2 sections as we get to more than just a handful, and we can develop the number of sections to adapt to the incoming flow, like adding a section just for upcoming events, maybe with a calendar feature for ex when it becomes relevant to do so (to discuss)

5.1 News

Short news items with eye-catchers

5.2 Job Postings

5.3 Presentations, Papers ...

Perhaps sorted by workpackages

6 Intranet: ALM

This section specifies the requirements for the internal intranet of the iSAS website, and is to be an area that is restricted to collaboration members. Permission to access this intranet area is to be managed by WP specific e-groups maintained by the WP leaders, with intranet permissions taken as the sum over the WP e-groups.

6.1 General iSAS Information

Overview to the functioning and progress of the iSAS collaboration should be available here, with the structure of this page to be a formatted set of links. Information links expected on this page:

- Organigram overview with roles and responsibilities
- Schedule and milestones progress
- Coordination and Steering group meetings and minutes repository
- Access point to documentation server
- access point to Indico server
- access to Collaboration list and e-group management

6.2 Work package specific Information

Here links work packages inks to the specific work packages are to be listed, with the destination links managed and hosted by the individual WPs..

What is also needed here is links to the overlap coordination and review process for in-common activities that cross multiple WP