

Input from Spanish and European Early Career Researchers

Newcomer Fest 2024

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on behalf of the EPPSU ECR input organisers



European Particle Physics Strategy Update



9 topical WGs:

- EW/Higgs Physics
- Strong Interaction
- Flavor Physics
- BSM
- Neutrino Physics and Cosmic Messengers
- DM and Dark Sector
- Accelerator Science and Technology
- Instrumentation
- Computing

1 ECR scientific secretary for each WG
→ ECFA ECR panel submitted list of nominations

- Anyone can submit input to the strategy (by March, 31st)
 - Future collider communities, ECFA countries, collaborations, ...
 - And **Early Career Researchers (ECRs)** → White Paper
 - Focus on topics relevant to ECRs, not covered in topical WGs

Spanish ECRs: Contributing to the Future of Particle Physics

- New mailing list for *Spanish ECRs*: ecr-ecfa-spain@cern.ch. Please self-subscribe!
- Survey for the Spanish ECR input to European Particle Physics Strategy Update (EPPSU)
 - **Scan the QR code!** We appreciate your personal input (5'-10')



European ECRs: Contributing to the Future of Particle Physics

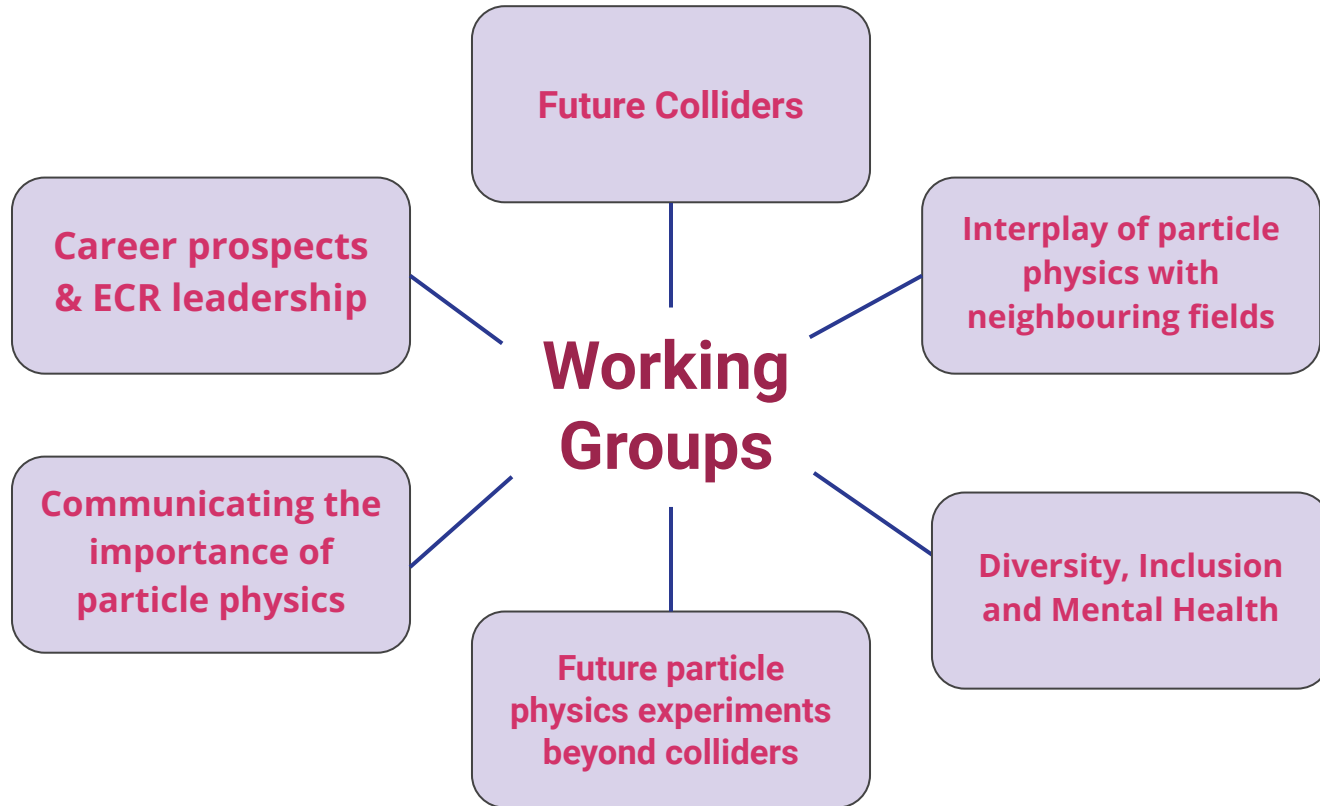
Initiated by ECFA ECR panel, but **Open to all European* ECRs[†]**

- ◆ **September 2024: Preparatory Meetings for the EPPSU Input**
- ◆ **October 10th, 2024: ECR session @ [3rd ECFA Workshop in Paris](#) (~55 participants)**
 - *Key topics* for the White Paper and *Working Groups* established to address the most important issues
- ◆ **Oct-Nov 2024: 2-3 meetings per WG since the event in Paris**
- ❖ **Nov 14th, 2024: [ECR Workshop on EPPSU @ CERN](#) adjacent to the [115th Plenary ECFA meeting](#)**

*: Focus on ECRs employed in European institutes, but input beyond Europe appreciated

†: Non-permanent position or <10 years after PhD

European ECRs: Contributing to the Future of Particle Physics



Roadmap for White Paper Completion

- ◆ **Ongoing:** online WG meetings throughout the process **You are here!**
- ◆ **Mid-December 2024:** Draft of the White Paper sections by WGs, led by WG conveners
- ◆ **End of January 2025:** Completion of the first overall White Paper draft by WG conveners
- ◆ **Mid-February 2025:** Consolidation of the first draft by all WGs
- ◆ **Mid-March 2025:** Endorsement of the White Paper by the ECFA ECR panel and submission to EPPSU

How Can You Contribute?

- All discussions are taking place in the *ECRs for EPPSU 2024* [Mattermost channel](#)
- Join eppsu-ecr@cern.ch and the [channel](#)
- Fill out upcoming **surveys**

Every voice matters!

For more info, please contact *Emanuela Musumeci*
(emanuela.musumeci@ific.uv.es)

Thanks for your attention!

Backup slides

Overview of Working Groups

◆ Future Colliders

Conveners: Armin Ilg, Axel Gallen, Emanuela Musumeci, Krzysztof Mękała, Leonhard Reichenbach, Ulrich Einhaus

- **Input on Selection Criteria:** Define essential criteria for selecting a future collider
- **Potential proposal ranking:** Query preference of collider proposals and related questions (tbd)
- **Significance:** Emphasise the importance of a future collider
- **Process transparency:** Advocate for a transparent selection and decision-making process

◆ Future particle physics experiments beyond colliders

Conveners: Alexander Burgman, Elizabeth Long, Marvin Pfaff, Erik Wallin

- **Prominent role:** Ensure non-collider experiments remain significant in Europe's particle physics agenda
- **ECR community forum to:**
 - Strengthen coherence and provide a collective voice for the community
 - Foster collaboration among non-collider projects

Overview of Working Groups

◆ Communicating The Importance of Particle Physics

Conveners: Abdelhamid Haddad, Jan-Hendrik Arling

- **Valued Communication Skills:** Communication skills are as important as technical expertise in the field
- **Mentorship Program** linking senior researchers down-to high school students
- **Raising Awareness** of current work and future projects
- **Broad Outreach:** target audiences from university students to the general public

◆ Interplay of particle physics with neighbouring fields

Conveners: Abdelhamid Haddad, Alexander Burgman

- **Cross-Disciplinary Exchange:** diverse interactions to foster progress in particle physics
- **Support for Experts** transitioning between disciplines
- Facilitate **Cross-Field Idea and Tech Exchange**
- **Collaboration:** Emphasise cross-disciplinary efforts on shared research questions

Overview of Working Groups

◆ Career prospects and ECR leadership

Conveners: Christina Dimitriadi, Laura Huhta, Jan Klamka, Emanuela Musumeci

Career

- **Appealing Career Paths** by providing clearer paths to permanent positions and enhancing job security
- **Training for Versatile Skills** relevant to both academic and industry roles
- **Career Insights for Undergraduates:** Provide statistics for informed PhD decisions
- **Ease of Transition** for engineers and technical experts into HEP
- **Reconsider Relocation** for temporary roles and support mobility challenges
- **Mentorship by Senior Academics** to guide ECR career development
- **Dedicated Time** to pursue projects beyond main duties

ECR Leadership and Funding

- **Inclusive Decision-Making:** Engage ECRs in key decisions and major events
- **Acknowledge** ECR contributions and **involve them** in ESPPU preparations
- **Dedicated Funding** for ECRs activities