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| <b>Name:</b>                                                         | <b>Susana Izquierdo Bermudez</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  |
| <b>Affiliation:</b>                                                  | CERN                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                              |
| <b>Position:</b>                                                     | Senior Scientist, CERN TE-MS C Large Magnet Facility section leader and leader of the HL-LHC collaboration for the interaction region magnets.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Previous Positions:</b>                                           | Junior Scientist, CERN TE-MS C Magnet Design and Technology                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                       |
| <b>Education:</b>                                                    | M.Sc., Carlos III University of Madrid (uc3m), 2010<br>Ph.D., Polytechnic University of Madrid (UPM), 2023                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        |
| <b>Research Interests/<br/>Areas of Expertise:</b>                   | Superconducting magnets                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Publications:</b>                                                 | More than 100 scientific papers ( <a href="#">h-index 22</a> )                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |
| <b>Approximate Number of Years<br/>in Applied Superconductivity:</b> | 15                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                |
| <b>Membership in Professional<br/>Societies:</b>                     | IEEE TAS Editorial Staff – Associate Editor Large Scale                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           |
| <b>Previous ASC Service:</b>                                         | Large Scale Program Committee (ASC 2024 and 2026)<br>Instructor of the ASC short course “ <i>Design of Superconducting Magnets for Particle Accelerators</i> ” (ASC 2022, 2024 and 2026)<br>Session Chair of multiple ASC conferences                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             |
| <b>Service to Related Conferences:</b>                               | Topical Group Convener for Accelerator Technology/Magnets in the Snowmass' 21 process<br>Member of the organization committee of the International School on Numerical Modelling for Applied Superconductivity from 2016 to 2025<br>Program committee member (Large Scale) for EUCAS 2025<br>Lecturer on superconducting magnets in educational programmes including the CERN Accelerator School (CAS) and the CERN Summer Student Programme<br>Lead editor and technical editor of IEEE Transactions on Applied Superconductivity special issues associated with ASC, EUCAS and MT conferences                                                                                                                                                                                                   |
| <b>Bio:</b>                                                          | <p>Susana Izquierdo Bermudez is a senior scientist at CERN, where she leads the worldwide collaboration responsible for the HL-LHC interaction region magnets and manages the Large Magnet Facility. Her work focuses on the development and implementation of Nb<sub>3</sub>Sn superconducting magnets for next-generation particle accelerators, with a key role in the HL-LHC upgrade scheduled for installation in 2029.</p> <p>She joined CERN in 2011, contributing to the LHC Long Shutdown activities before moving into magnet design and technology, where she has since worked on high-field accelerator magnet development. Since 2020, she has been responsible for the Nb<sub>3</sub>Sn inner triplet quadrupoles, a central element for achieving the HL-LHC luminosity goals.</p> |