

13th FTEC Workshop (only remote connection)

Report of Contributions

Contribution ID: 78

Type: **not specified**

Supervision and trigger distribution units for magnet protection (FTEC2019-02)

Thursday 20 January 2022 09:30 (10 minutes)

Presenter: MARTIN GARCIA, Guzman (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC2019: Electrical Engineering

Contribution ID: 79

Type: **not specified**

Qualification of electrolytic capacitors for the development of quench protection systems of superconducting magnets (FTEC2019-03)

Thursday 20 January 2022 09:20 (10 minutes)

Presenter: GUASCH MARTINEZ, Josep (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC2019: Electrical Engineering

Contribution ID: **80**

Type: **not specified**

Superconducting RF (SRF) sample testing at the cryogenics lab (FTEC2019-12)

Thursday 20 January 2022 09:40 (10 minutes)

Presenter: VIDAL GARCIA, Pablo (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC2019: Electronics Engineering

Contribution ID: **81**

Type: **not specified**

Support for Electronics Radiation testing and hardness assurance (FTEC2019-16)

Thursday 20 January 2022 09:50 (10 minutes)

Presenter: SACRISTAN BARBERO, Mario (CERN-CIEMAT)

Session Classification: FTEC2019: Electronics Engineering

Contribution ID: 82

Type: **not specified**

Mechatronics Engineering for the ISOLDE Facility (FTEC2019-18)

Thursday 20 January 2022 10:00 (10 minutes)

Presenter: VILA GRACIA, Yago Nel (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC2019: Electronics Engineering

Contribution ID: 83

Type: **not specified**

Design and manufacturing of normal conducting copper structures (FTEC2019-09)

Thursday 20 January 2022 11:10 (10 minutes)

Presenter: MORALES SANCHEZ, Pedro (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC2019: Mechanical Engineering

Contribution ID: 84

Type: **not specified**

Mechanical Engineering for beam intercepting devices (target, collimators and dumps) (FTEC2019-17)

Thursday 20 January 2022 11:30 (10 minutes)

Presenter: ROMERO FRANCIA, Alvaro (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC2019: Mechanical Engineering

Contribution ID: 85

Type: **not specified**

Fabrication Engineering for Accelerator components (FTEC19-19)

Thursday 20 January 2022 11:20 (10 minutes)

Presenter: NAVARRO BAEZA, Miguel (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC2019: Mechanical Engineering

Contribution ID: 86

Type: **not specified**

Validation and verification of industrial control systems (FTEC2019-11)

Thursday 20 January 2022 10:10 (10 minutes)

Presenter: LOPEZ MIGUEL, Ignacio David (Centro de Investigaciones Energéticas Medioambientales y Tec. (ES))

Session Classification: FTEC2019: Control Systems/Computing

Contribution ID: 90

Type: **not specified**

Laser treatment for electron cloud mitigation (FTEC2019-06)

Thursday 20 January 2022 11:00 (10 minutes)

Presenter: REASCOS PORTILLA, Ana Karen (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC2019: Materials Science

Contribution ID: 91

Type: **not specified**

Welcome and introduction

Thursday 20 January 2022 09:00 (10 minutes)

Summary

Presenters: PEREZ-MORALES, Jose Manuel (CIEMAT, Centro de Investigaciones Energeticas Medioambientales y Tecnologicas); GARCIA-TABARES, Luis; GONZALEZ BERGES, Manuel (CERN); MARTINEZ DE ALVARO, Teresa

Contribution ID: 95

Type: **not specified**

Control system engineering for the refurbishment of a Cold-box (FTC2019-01)

Thursday 20 January 2022 10:30 (10 minutes)

Presenter: VILLANUEVA MARTINEZ, Sergio (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC2019: Control Systems/Computing

Contribution ID: 96

Type: **not specified**

Engineering for the HiLumi-LHC Inner Triplet STRING (FTEC2019-07)

Thursday 20 January 2022 09:10 (10 minutes)

Presenter: HEREDIA GARCIA, Nicolas (CIEMAT)

Session Classification: FTEC2019: Electrical Engineering

Contribution ID: 97

Type: **not specified**

Consolidation and Redesign of the CERN Industrial Controls Frameworks (FTEC2019-10)

Thursday 20 January 2022 10:20 (10 minutes)

Presenter: PABLO RODRIGUEZ, Juan Manuel (CERN)

Session Classification: FTEC2019: Control Systems/Computing

Contribution ID: 98

Type: **not specified**

Mechanical or material engineering for studies on radiation damage on beam intercepting devices materials (FTEC2019-20)

Thursday 20 January 2022 11:40 (10 minutes)

Presenter: MENA ANDRADE, Ramiro Francisco

Session Classification: FTEC2019: Mechanical Engineering

Contribution ID: 99

Type: **not specified**

General discussion on the FTEC program

Thursday 20 January 2022 11:50 (30 minutes)

Summary

Presenter: ALL

Contribution ID: **100**

Type: **not specified**

Studies for the LHC Injection Kicker Magnets

Thursday 20 January 2022 14:00 (10 minutes)

Presenter: DIAZ ZUMEL, Miguel (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (CSIC))

Session Classification: FTEC 2021: Electrical Engineering

Contribution ID: **101**

Type: **not specified**

Development and application of a Flux Expulsion Lens for Superconducting Materials

Thursday 20 January 2022 14:10 (10 minutes)

Presenter: MONGE BARTOLOME, Laura (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC 2021: Electrical Engineering

Contribution ID: **102**

Type: **not specified**

Dimensional control for High Field Magnet short model development

Thursday 20 January 2022 14:20 (10 minutes)

Presenter: GOMEZ SANCHEZ, Pablo (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC 2021: Electrical Engineering

Contribution ID: **103**

Type: **not specified**

High Field Magnet short model development and construction

Thursday 20 January 2022 14:30 (10 minutes)

Presenter: RICO ORERO, Joan Baptista (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC 2021: Electrical Engineering

Contribution ID: **104**

Type: **not specified**

Development of hardware and software for Ethernet enabled data acquisition cards deployed in quench protection systems

Thursday 20 January 2022 14:40 (10 minutes)

Presenter: MURILLO MOYA, Maria (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC 2021: Electronics Engineering

Contribution ID: **105**

Type: **not specified**

Engineering/design of tooling for removal and storage of 250-tonne fragile calorimeter from the CMS detector, 100m underground, to the surface

Thursday 20 January 2022 15:40 (10 minutes)

Presenter: SANCHIS ORTOLA, Victorio (Centro de Investigaciones Energéticas Medioambientales y Tecno)

Session Classification: FTEC 2021: Mechanical Engineering

Contribution ID: **106**

Type: **not specified**

Engineering and design of interface systems to integrate the new 250-tonne high-granularity calorimeter into the CMS detector

Thursday 20 January 2022 15:50 (10 minutes)

Presenter: GARCIA ROBLES, Diego (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC 2021: Mechanical Engineering

Contribution ID: **107**

Type: **not specified**

Computation of the beam coupling impedance from precomputed fields

Thursday 20 January 2022 14:50 (10 minutes)

Presenter: DE LA FUENTE GARCIA, Elena (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC 2021: Beam Physics

Contribution ID: **108**

Type: **not specified**

Optimisation of the source and LEBT for linac4

Thursday 20 January 2022 15:00 (10 minutes)

Presenter: ETXEBARRIA ERDOIZA, Jone (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC 2021: Beam Physics

Contribution ID: **109**

Type: **not specified**

Characterization of bunch-by-bunch tune shift effect in the SPS

Thursday 20 January 2022 15:10 (10 minutes)

Presenter: MASES SOLE, Ingrid (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC 2021: Beam Physics

Contribution ID: **110**

Type: **not specified**

Development & maintenance of SCADA (Supervisory Control And Data Acquisition) based control systems

Thursday 20 January 2022 16:00 (10 minutes)

Presenter: PEREZ SANZ, Isaac (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC 2021: Control Systems/Computing

Contribution ID: 111

Type: **not specified**

Image processing using computer vision and machine learning for sensors mounted on robots in tunnels and inside cavities

Thursday 20 January 2022 16:10 (10 minutes)

Presenter: GARCÍA GONZÁLEZ, Álvaro (Centro de Investigaciones Energéticas Medioambientales y Tec. (ES))

Session Classification: FTEC 2021: Control Systems/Computing

Contribution ID: 112

Type: **not specified**

Design, development and testing of PLC based industrial control systems for high power converters and static var compensators

Thursday 20 January 2022 16:20 (10 minutes)

Presenter: MARIN RODRIGUEZ, Marcos (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC 2021: Control Systems/Computing

Contribution ID: 113

Type: **not specified**

Software Engineer for the Design and Implementation of Graphical User Interfaces and Support Software for the LHC Beam Position and Diamond Beam Loss Systems

Thursday 20 January 2022 16:30 (10 minutes)

Presenter: MARTINEZ SAMBLAS, Javier (Centro de Investigaciones Energéticas Medioambientales y Tecnológicas (ES))

Session Classification: FTEC 2021: Control Systems/Computing

Contribution ID: **114**

Type: **not specified**

AOB

Thursday 20 January 2022 16:40 (50 minutes)