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Lessons learnt and new concepts for conventional safety in FCC

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Abstract title

Future Circular Colliders (FCC) under study at CERN will face conventional safety challenges throughout their life-cycle, from fire prevention in an unprecedented large underground facility to environmental protection in the surroundings. Studies are being performed in order to propose risk prevention and mitigations measures to achieve an acceptable risk level and ensure the safe operation of the installation. Such a project with new machines, underground infrastructure and layouts offers the opportunity to study new ideas, first based on lessons learnt from former or present facilities and second based on new concepts to improve safety. The main domains for conventional Safety in similar installations, e.g., air management, oxygen-deficiency hazard, static confinement and fire compartments, will be assessed in this presentation together with the integration of new concepts, e.g. smoke extraction and egress. The direction shall aim towards an “optimal solution” with respect to safety and its importance to anticipate future advancements in technology

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