

Cryomagnet logistics and transport

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Logistics is of great importance for the construction, assembly and operation of FCC. During set-up of LHC, logistics already proved to be a key factor. In respect of the size of FCC, logistics is increasing its significance. New concepts, methods and analytics for logistics, supply chain and transport concepts will have a direct impact on the estimation of the feasibility and costs of the FCC.

It is therefore of high importance to already think about logistics concepts during the planning period for all phases of the project (design/ development, planning, transport, construction, assembly, implementing, operations and maintenance, lifecycle evaluation/ possible rededication). This will include concepts for (over ground) transports, storage, assembly strategies, testing and handling of magnets, vehicle concepts for the underground transportation of magnets, concept for the underground transportation of people and material, a technical feasibility study for tracking solutions and the design and evaluation of a global cryo-magnet transport concept. The possibility to transfer already existing concepts from other domains, like strategies for the sourcing and assembly of complex (mechanical) systems (e.g. semi-knock-down in the automotive industry), is already taken into consideration.

The presentation will give an overview of the current status of ideas, concepts and possible feedback from logistics to other areas like the magnet design or tunnel layout.

Primary author: NETTSTRÄTER, Andreas (Fraunhofer-Institut für Materialfluss und Logistik)

Co-author: PRASSE, Christian (Fraunhofer-Institut für Materialfluss und Logistik)

Presenter: NETTSTRÄTER, Andreas (Fraunhofer-Institut für Materialfluss und Logistik)

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