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Magnet design studies of Turkish Accelerator Center Proton Accelerator Facility project

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In this presentation, The design studies of solenoid magnets which will planned to use for TAC (Turkish Accelerator Center) PAF (Proton Accelerator Facility) Project's LEBT (Low Energy Beam Transfer) line, will be presented. 2 – D FEMM (Finite Element Method Magnetics) simulation code for quarter piece of the solenoids have been used for magnet design studies. Electromagnetic and mechanical designs of the solenoids will be performed in 3 – D simulations according to the datas that have been obtained from beam dynamic studies, with Opera computer code and design studies will be continue with SuperFish – Poisson code. The discussions on purchasing the code, are still in progress with British company called Cobham. Beside, seperated studies must have been studied for electrical circuit and water circuit designs.

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