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EMuS in CSNS

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MuSR is a useful tool which use muons as magnetic probes in matter. There are several MuSR running around world. Now a R&D program named EMuS had been approved to setup a new MuSR in China.
The EMuS will be located in CSNS, Dongguan. Use 4KW/20KW 1.6GeV proton beam from CSNS hit target to generate surface muons and pions, then secondary particels will be collected and transfered. Besides polarized muons used as MuSR, neutrinos decayed from pions and muons are planned to be used to do various experiments.
Unlike those previous MuSR, EMuS adopted adiabatic particle capture system concept from Neutrino Factory and COMET, so a higher intensity muon beam is expected to be achieved. This would make EMuS a place with good competitiveness for material analysis and neutrino physics. Recent progress on design of the proton beamline, target station, MuSR beamline, neutrino muon beamline and MuSR will be reported.

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