



Contribution ID: 4

Type: **not specified**

Electrostatic chopper for Super MuSR muon beamline

Monday, 12 March 2018 10:30 (30 minutes)

“Electrostatic chopper for Super MuSR muon beamline”

The upgrade to the MuSR muon beamline at ISIS will include an electrostatic chopper, designed to improve the timing resolution of muon experiments. The chopper is required to switch from +80 kV (± 40 kV on each plate) to 80 kV in 10 ns, sweeping the beam across an aperture at a precise time. A feasibility study has been undertaken and a design based on thyatronns is being developed. This talk will present our conceptual design, some of the problems we expect to face and potential solutions. Beneficial discussion around this topic will include experiences of designing and operating similar systems at other facilities.

Presenter: RANNER, Jonny (STFC)

Session Classification: Session 1 : Valve switches