



Stop the runaway electron beam

before it runs into the wall!

Friday, November 27th
16:00 Prague

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* Institute for Magnetic Fusion Research (IRFM - CEA) & Aix-Marseille Université (AMU)

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Title: Stop the runaway electron beam before it runs into the wall

Speaker: Sundaresan Sridhar, IRFM

When: 2020-11-27 16:00:00

Abstract: Relativistic runaway electron (RE) beams are one of the main consequences of disruptions and they carry the risk of in-vessel component damage. The prevention and control of the RE are of prime importance. The current strategy for runaway electrons is to avoid their generation by a massive material injection (MMI). If their generation cannot be avoided, a second MMI will be used to mitigate the generated RE beam. But the problem is, a background plasma of MMI impurities is formed which make the second MMI inefficient to mitigate RE beams, as observed in the JET tokamak. This talk aims to understand the physics of interaction between the RE beam and the mitigation MMI in the presence of a cold background plasma.

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