



The poster features a circular portrait of Sundaresan Sridhar, a man with glasses and a beard, wearing a brown jacket. The background of the portrait is a dark tunnel with a bright light source at the end, creating a perspective effect. To the right of the portrait, the text reads: 'Stop the runaway electron beam before it runs into the wall!'. Below this, the date and time are given as 'Friday, November 27<sup>th</sup> 16:00 Prague'. The Zoom link is 'fusion.yt/ab' and it is noted as a 'LIVE' event. Logos for 'FUSION' and 'FuseNet' are in the top right corner. A green banner at the bottom says 'OPEN ZOOM WEBINAR'. A small footnote at the bottom right of the white area reads: '\* 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.

**Email:** [fusionep-talks@egyplasma.com](mailto:fusionep-talks@egyplasma.com)

**Website:** [fusionep-talks.egyplasma.com](http://fusionep-talks.egyplasma.com)