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The Mu3e experiment

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The Mu3e experiment at PSI searches for the lepton flavour violating decay of the positive muon to two positrons and an electron, aiming for a sensitivity of 1 in 10^{16} muon decays. This requires a novel detector concept based on ultra thin high-voltage monolithic active pixel sensors (HV-MAPS) complemented by scintillating fibres and tiles for precise timing measurements. The poster will discuss the status of the first phase of the experiment, which aims at a sensitivity of 1 in 10^{15} muon decays using an existing surface muon beam line at PSI.

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