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RUEDI: Relativistic Ultrafast Electron Diffraction & Imaging

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The Relativistic Ultrafast Electron Diffraction and Imaging (RUEDEI) facility has been recently approved by the UKRI Infrastructure Fund to be a new ultrafast science capability for the UK based at Daresbury Laboratory. It will deliver single-shot, time-resolved, imaging with MeV electrons, and ultrafast electron diffraction down to 10 fs timescales. RUEDEI is being designed to enable the following science themes: dynamics of chemical change; materials in extreme conditions; quantum materials; energy generation, storage, and conversion; and in vivo biosciences. The evolution of the design of the facility will be outlined along with the remaining challenges to deliver a world leading capability.

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