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## n2EDM Ramsey Chamber

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We present details of the simulations, design, and half scale initial tests of the Ramsey Chamber apparatus for the n2EDM experiment. The Chamber is a double chamber cylindrical geometry with a 80 cm internal diameter. The two UCN volumes are stacked vertically and separated by a central high voltage electrode. The volumes are sealed on top and bottom by an insulating spacer and ground electrodes. The distance between the high voltage and ground electrodes is 12 cm and designed to hold voltages up to 250 kV. Simulations were performed to optimise the geometry of the Chamber to maximise the applied voltage.

**Author:** Dr THORNE, Jacob (Universität Bern)

**Presenter:** Dr THORNE, Jacob (Universität Bern)

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