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A Fusion Neutron Source for Materials and Subcomponent Development and Qualification¹ THOMAS SIMONEN, Un. California Berkeley, GDT GROUP COLLABORATION, MAGNETIC MIRROR STUDY GROUP COLLABORATION — The magnetic-mirror based Gas Dynamic Trap (GDT) device in Novosibirsk Russia is developing the physics basis for a compact DT Neutron Source (DTNS) for fusion materials and subcomponent development as well as a driver for a fusion-fission driver for nuclear waste burn-up. The efficiency of this concept depends on electron temperature. This paper describes past experimental results as well as methods and prospects to further increase the electron temperature.

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