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High temperature Be target for the French HiCANS

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HiCANS are new neutron sources of a very high interest for the future. However some major technological issues remain; one the biggest one being the development of targets able to sustain the high intensity proton beam during a time long enough to have a smooth operation of the source. We will present the developments made in Saclay on high temperature Beryllium targets. Two different targets have been tested with a 3 MeV proton beam during long runs; a small ones design to sustain a power up to 1 kW, and a big one design to sustain a power up to 50 kW. Results of 100 hours operations will be presented.

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