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Searches for baryon number violation in the HIBEAM-NNBAR experiment at the European Spallation Source

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The HIBEAM-NNBAR program is a proposed two-stage experiment at the European Spallation Source (ESS) designed to search for baryon number violation, which is –together with C and CP violation –one of the three fundamental Sakharov conditions to explain the observed baryon asymmetry of the Universe. Taking advantage of the ESS' unique capabilities as the future brightest neutron source, the experiment would make high sensitivity searches for neutrons converting into antineutrons and/or sterile neutrons. In this talk I will present the status of the program and present the plans for the coming years.

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