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(a) The poloidal cross section of QUEST tokamak. The hydrogen plasmas are sustained using the ECR. The particle flux to the first wall is measured using a permeation probe, which is placed on the equatorial plane. (b) The schematic diagram of the permeation setup. A resistive heater is set behind the membrane to control the temperature. Hydrogen permeation flux is measured by a QMS at the downstream. (Yue XU *et al.*, Plasma and Fusion Research, Vol.12, 1305038 (2017) <http://www.jspf.or.jp/>)



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