

## **Basic research on nuclear track microfilters for gas separation**

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Basic research on nuclear track microfilters, NTMF, made from the polyimide foil UPILEX, has been carried out to investigate the possible use of NTMF for gas separation in an environment containing large amounts of tritium. NTMF with a pore diameter as low as 0.1  $\mu\text{m}$  have been etched and metal replicas of the pores have been produced to determine the pore shape. An experimental setup for determining the separation factor of a NTMF for a given gas mixture has been constructed, and first experiments have been carried out.