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Sommario/riassunto	The aim of the present work is to develop an in-depth understanding of the microstructural changes in neutron-irradiated beryllium. In particular, it aims to reveal the precise mechanisms leading to the observed tritium retention. Both, helium and tritium could be detected for the first time by high-resolution electron energy loss spectroscopy (EELS) within bubbles in the grain interior as well as along grain boundaries.