In the CERN Future Circular Collider (FCC, under design) protons will be steered in a 100-km circumference tunnel by superconducting magnets up to an unprecedented energy of 100 TeV. The number of new technologies and approaches needed for FCC is incredibly high, and many scientists are already at work for that. In this lecture the efforts towards the realization of a high temperature superconducting beam screen allowing high beam stability will be described and discussed.

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