

Commissioning of the St. Benedict Gas Catcher



- This gas catcher will allow St. Benedict to eventually stop short-lived radioisotopes for high quality delivery to a Paul trap, where precision tests of the weak interaction may be performed.
- The St. Benedict gas catcher has been commissioned with an offline ion source. The device has demonstrated a transport efficiency up to 95% for pressures of 66 mbar and below.
- A systematic study of the device's various tuning parameters was performed in order to characterize the transport quality when decoupled from the ability to thermalize a fast moving beam.

