

# Radiation study of SVX3D chips on a hybrid with a 55 MeV proton beam

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with the support of LBNL SVX group

***Beam source-***: LBNL 88" cyclotron

***Sample-***: Layer 4 hybrid 7z34  
- 4 out of 7 chips had sets of load caps on the input  
- last chip w/bonded the fan-out for reading bias voltages, etc.

***Dose measurements:***

- ring ionization chambers
- cyclotron current
- Faraday cap downstream

***Dose calculations:*** SRIM/TRIM program