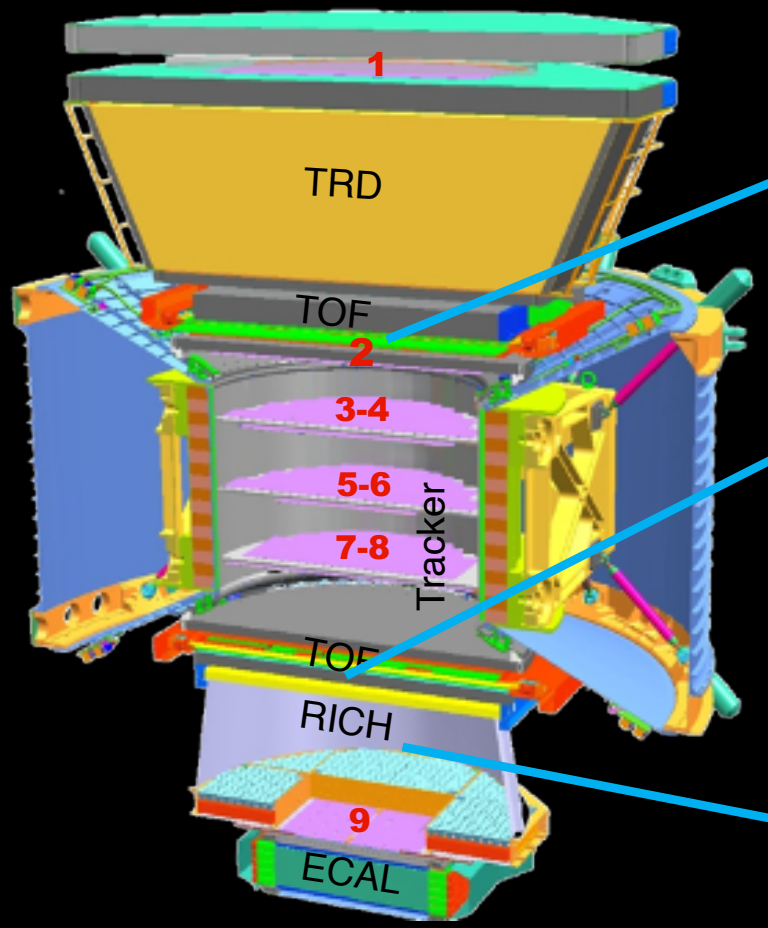
AMS Measurements of Antiprotons and Antideuterons

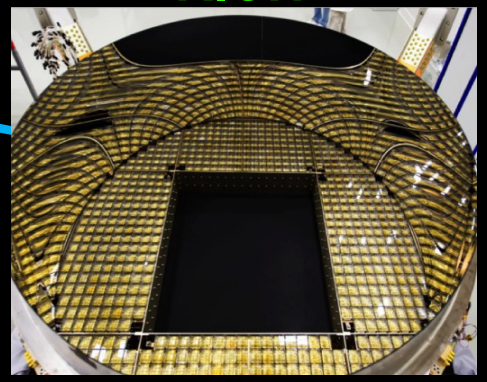
Zhili Weng / MIT

Antideuteron Measurements with AMS

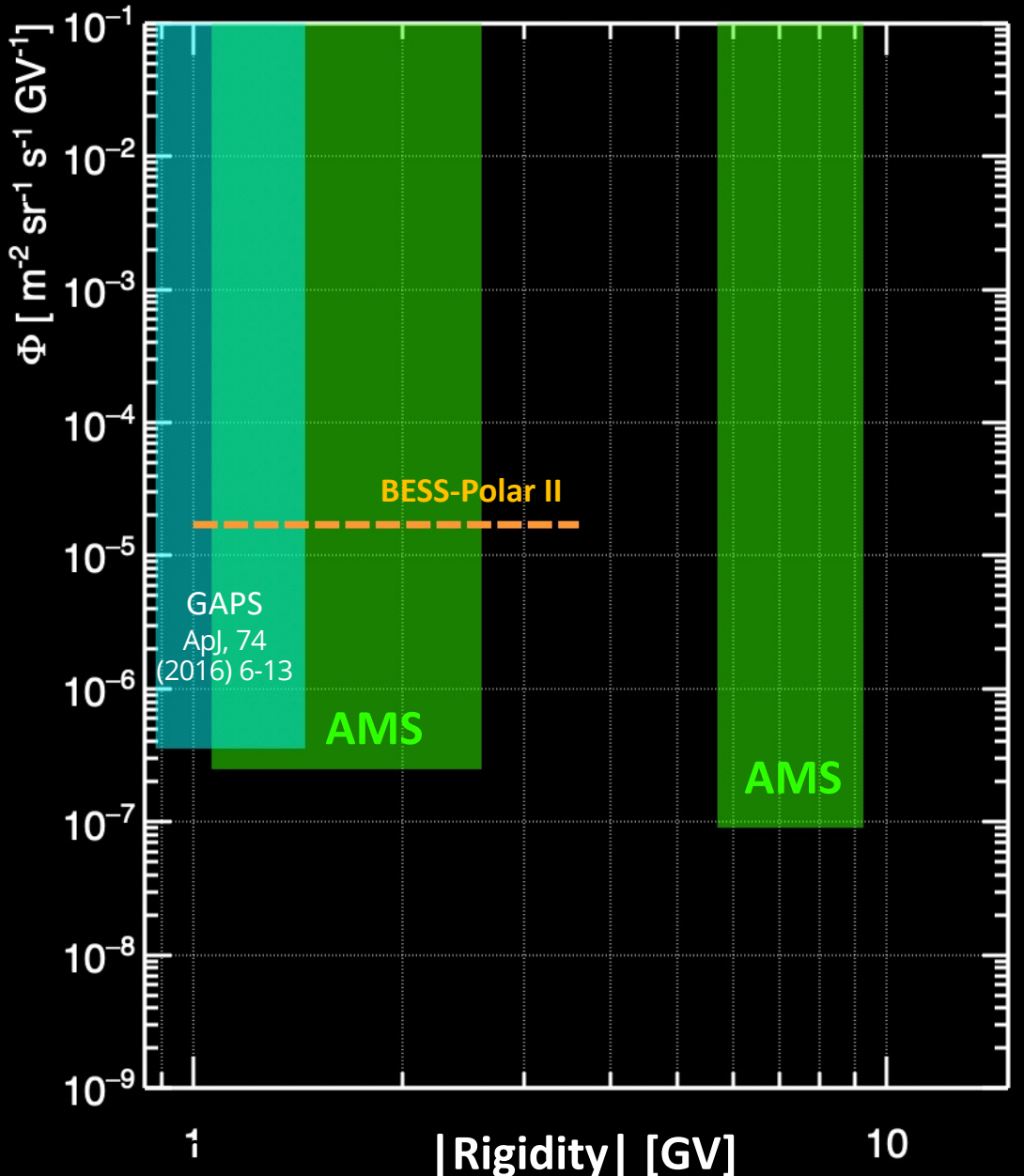


TOF

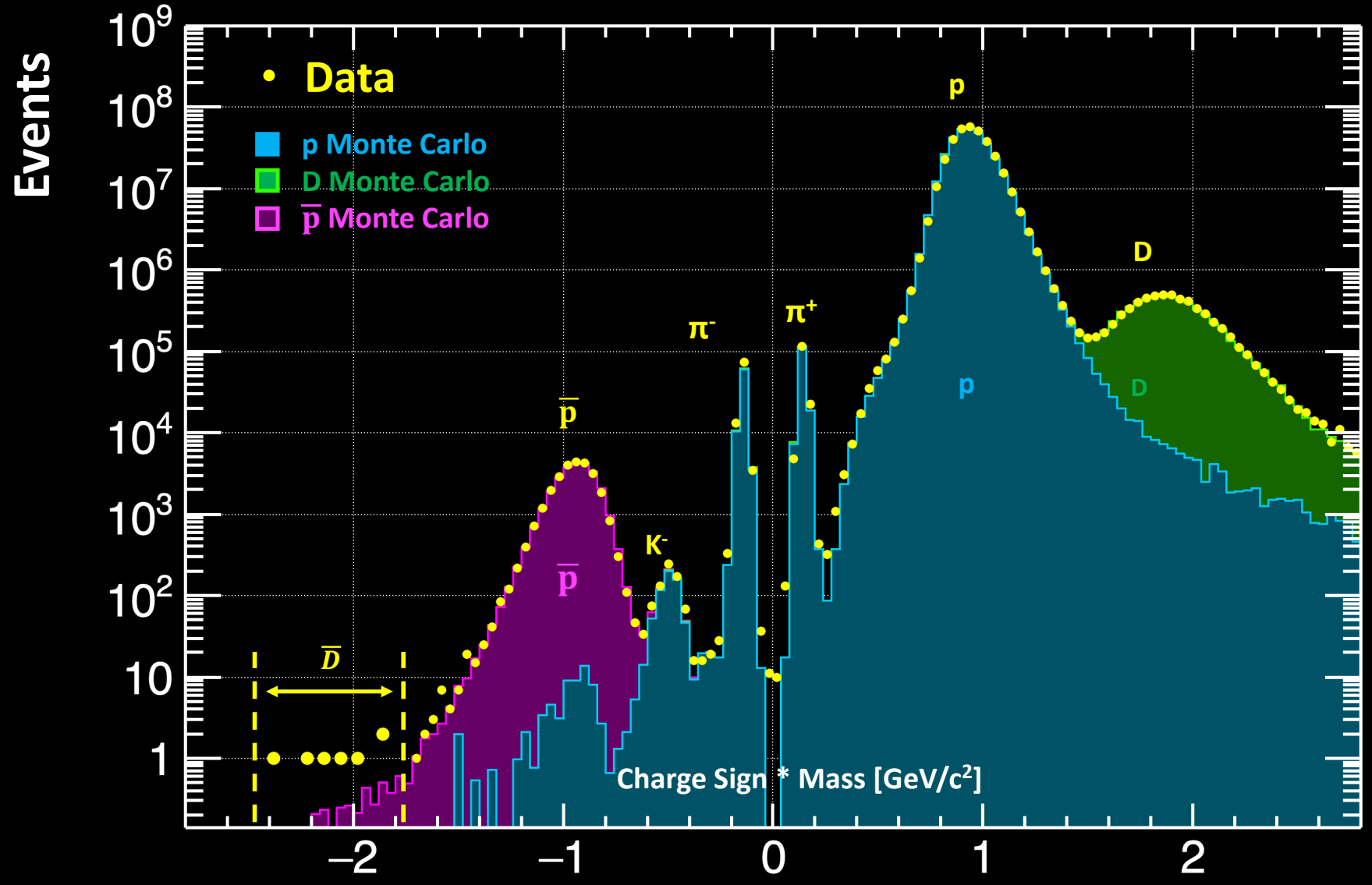
RICH



Silicon Tracker

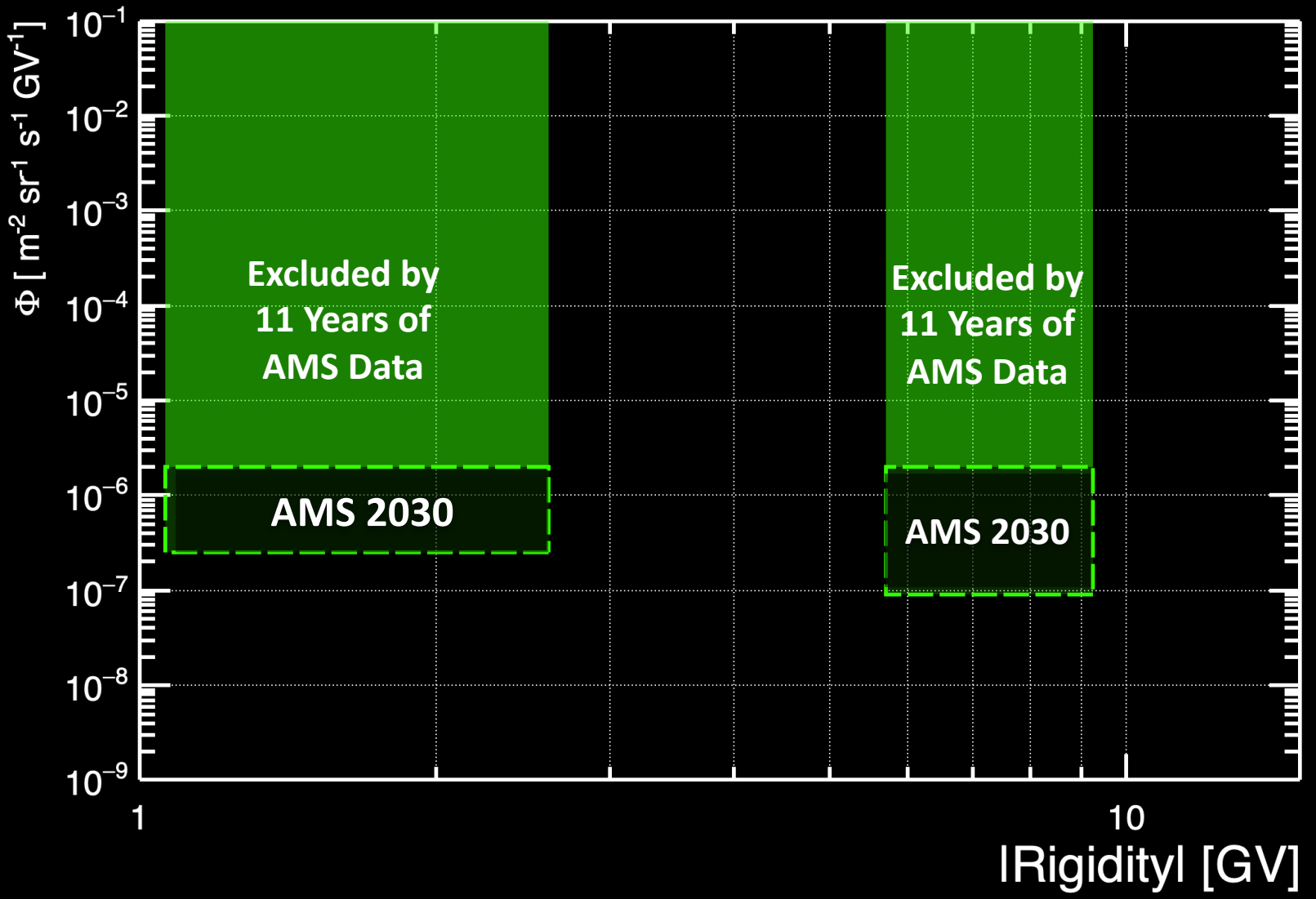


Current Status with 11 Years of AMS Data: Antideuterons in 5.7<|R|<9.3 GV



- Future AMS upgrade will provide additional measurement point to antideuterons.
- Improve analysis techniques, further MC study to better understand the background.

Future Measurement of Antideuteron with AMS Upgrade



Preliminary data,
Not for publication

AMS provide a unique opportunity to look for antideuteron in the cosmos for the next decade.