

Carbon Target Optimization (Preliminary)

X. Ding

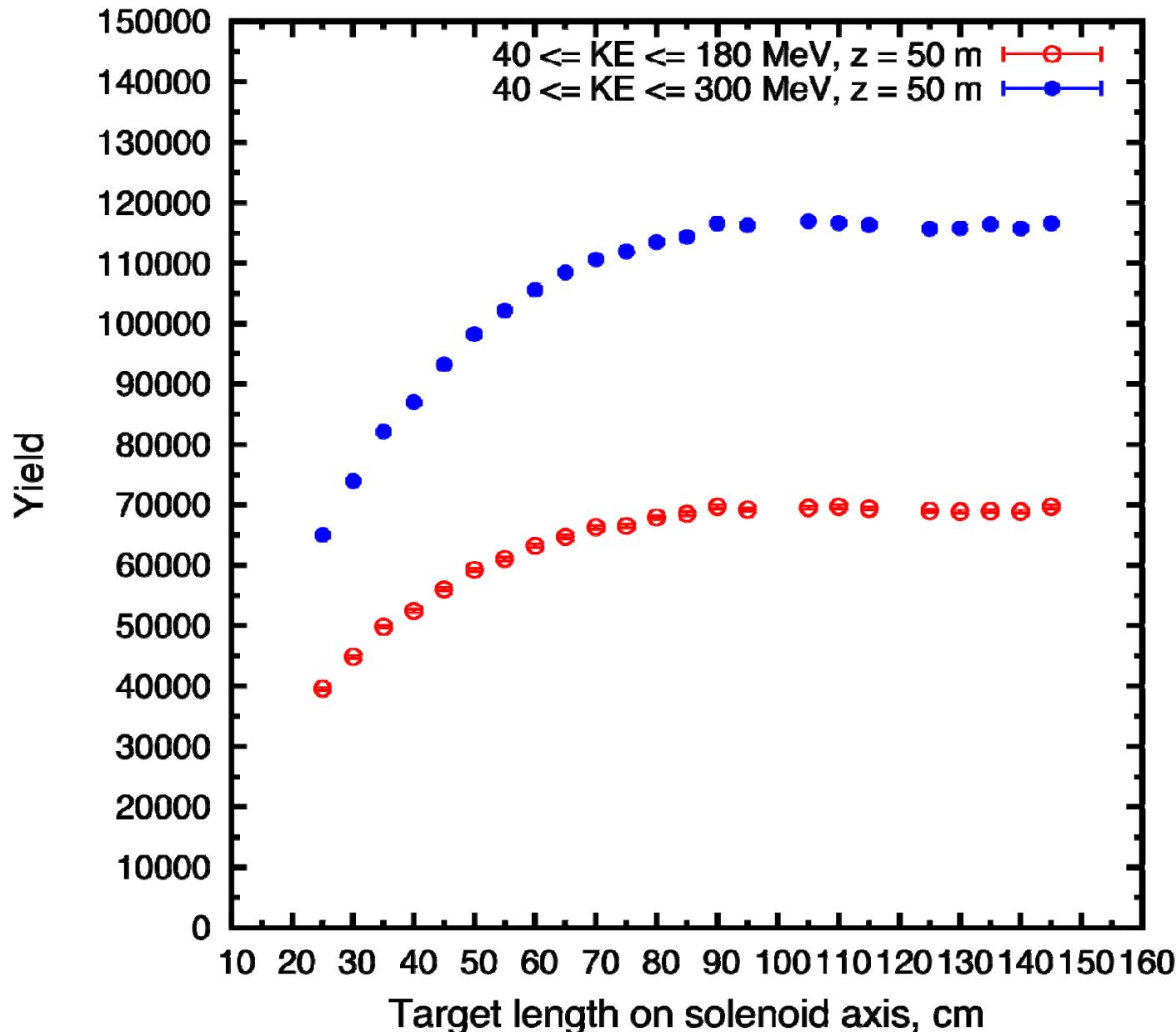
AAG meeting, BNL

Aug 13, 2015

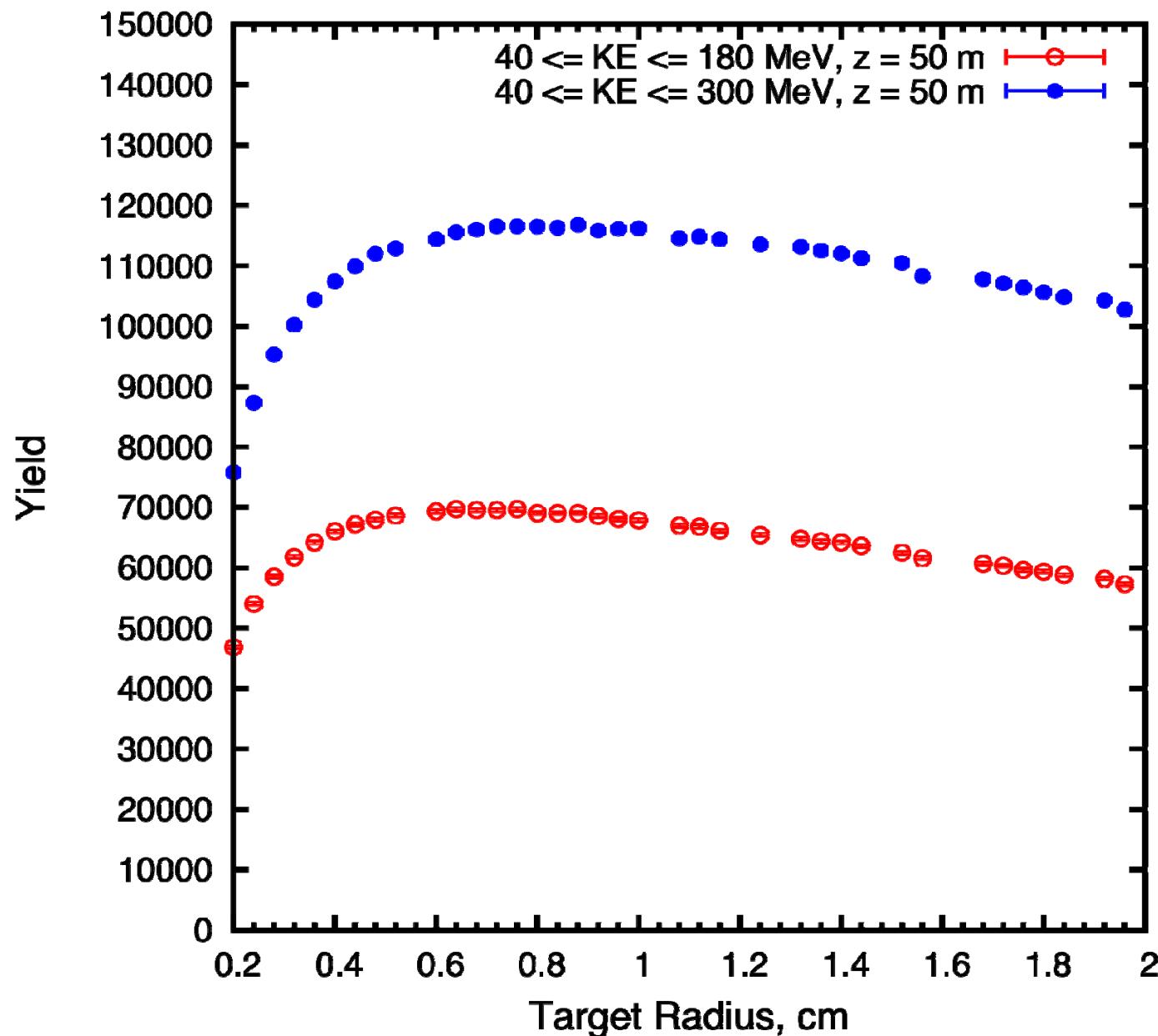
Introduction

- MARS15 (BNL Spot Cluster)
- ROOT based geometry setting without BE windows for 20t02T5m and 20to 4T5m configuration (Carbon target, 1.8 g/cm^3)
- No SMIN card and 400,000 events
- KE at 6.75 GeV, 5-micron beam emittance, launched at $z = -100 \text{ cm}$
- Sum all particles with collection plane at $z = 50 \text{ m}$ and KE selection of min of 40 MeV and max of 180 MeV or 300 MeV

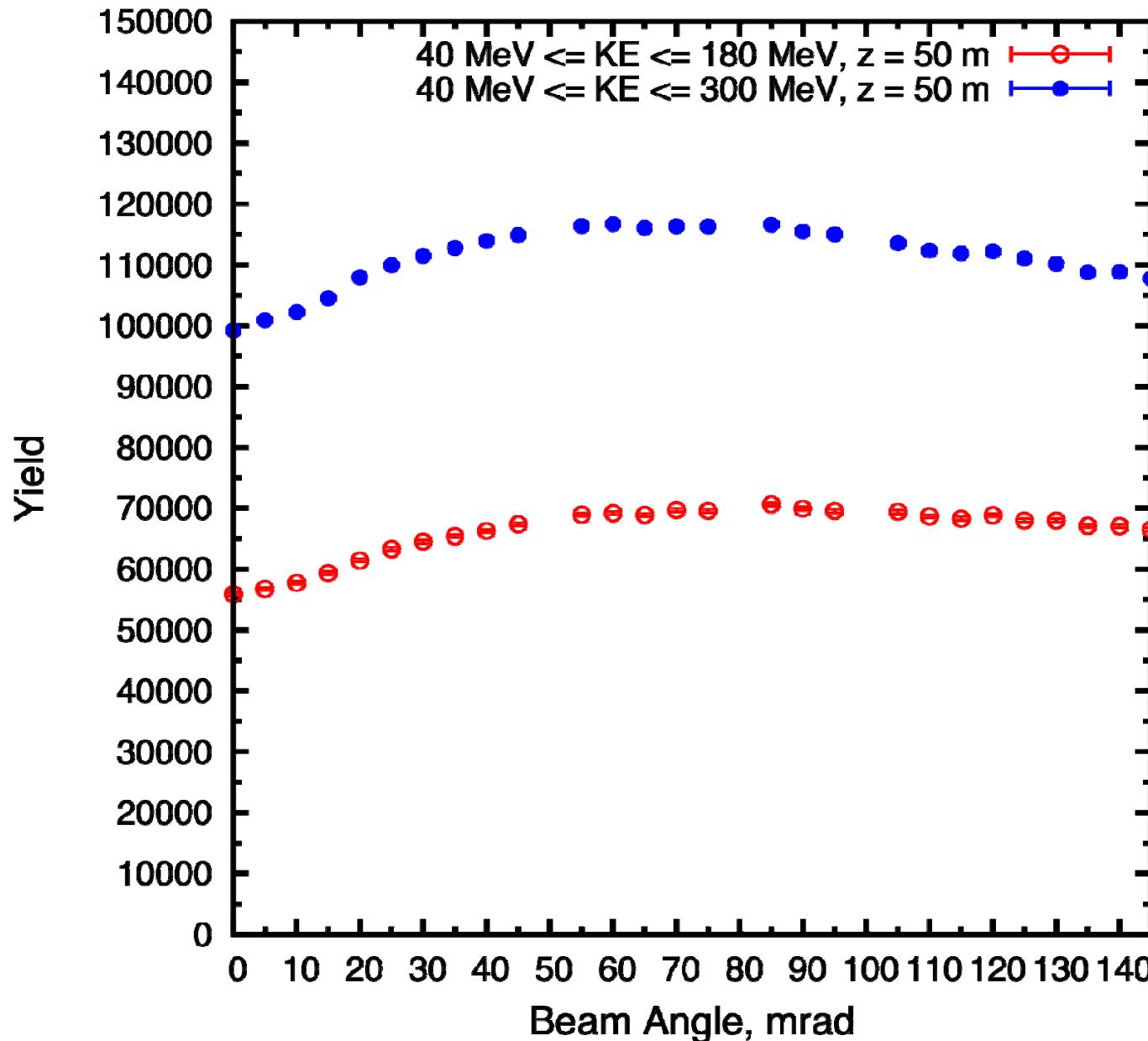
20to4T5m Configuration



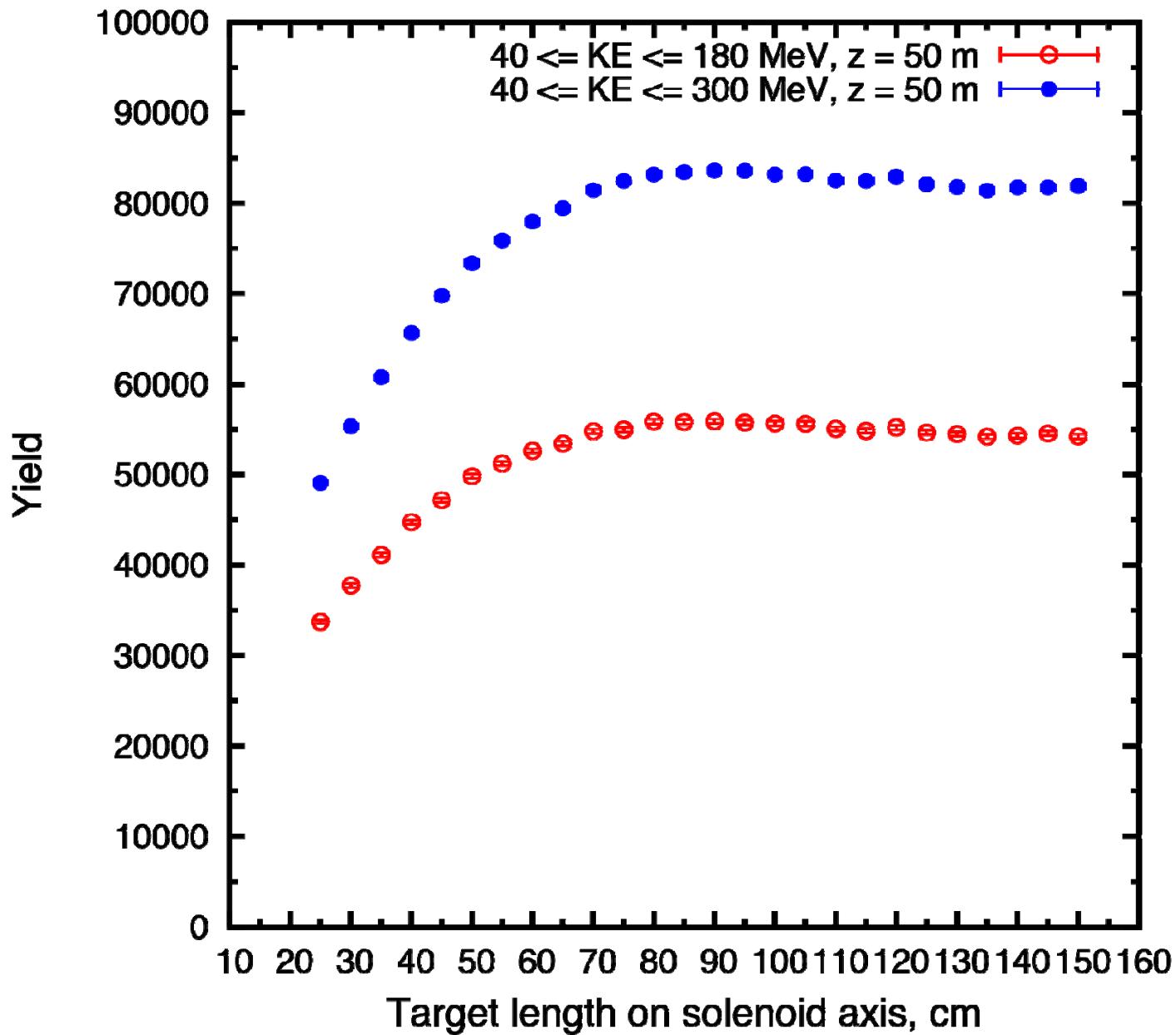
20to4T5m Configuration



20to4T5m Configuration



20to2T5m Configuration



20to2T5m Configuration

