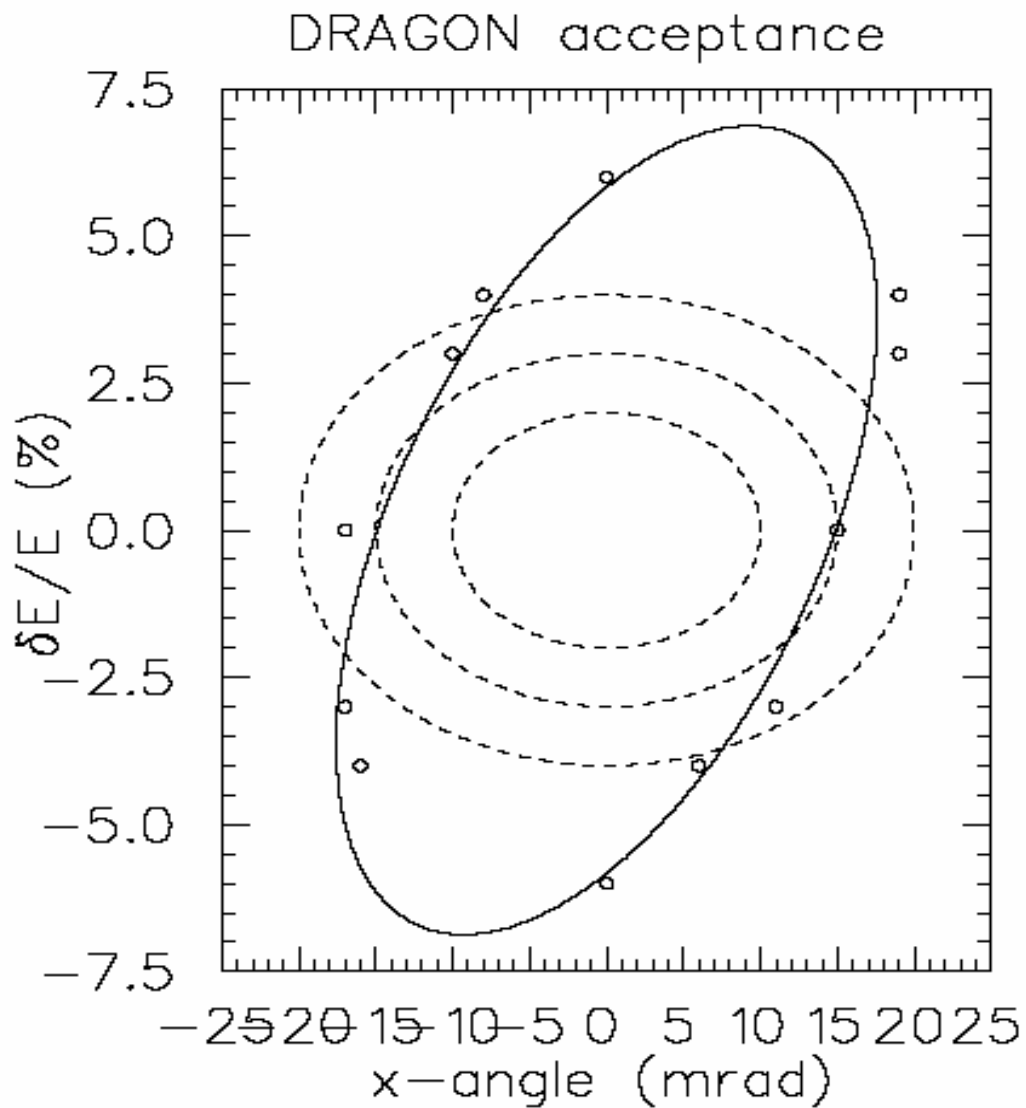# Recoil acceptance of Dragon
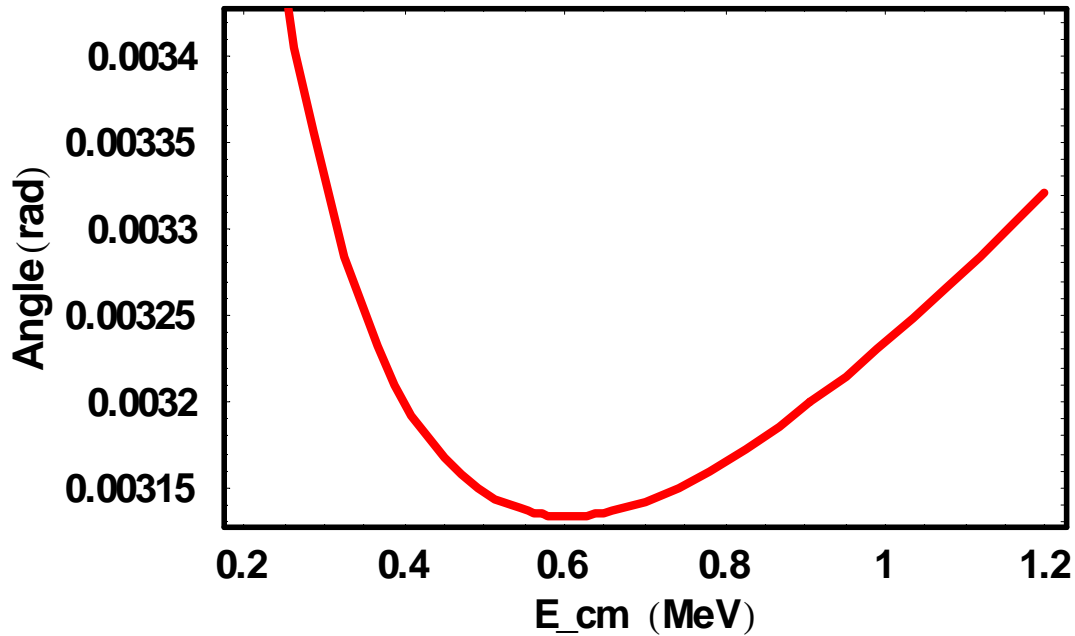
The acceptance of recoil particles is limited by its
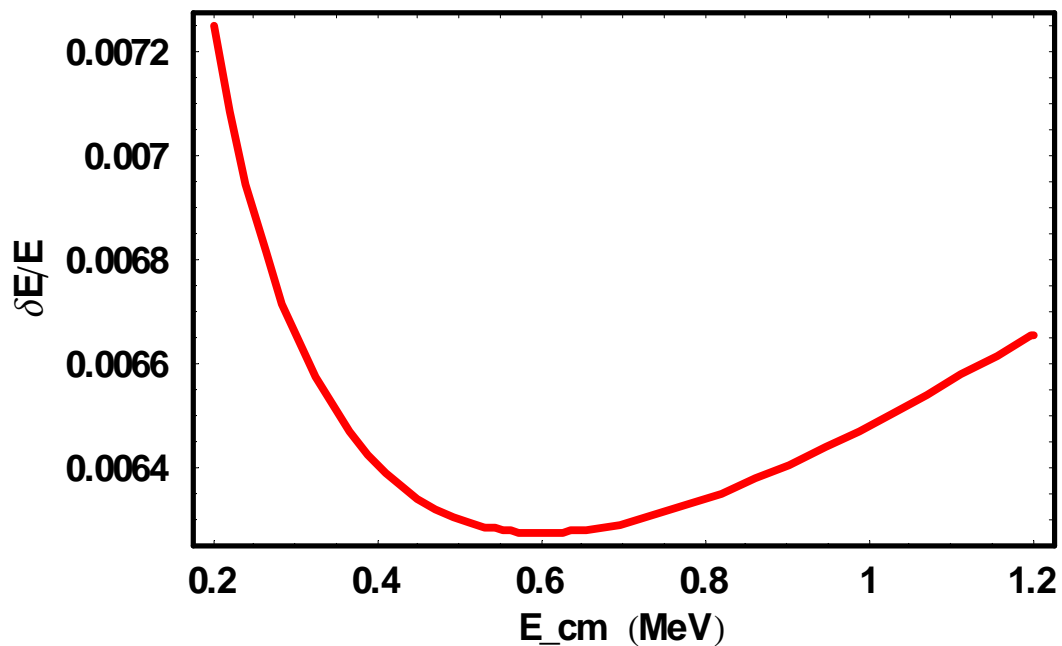- Emitting angle
- Energy Spread

DRAGON acceptance

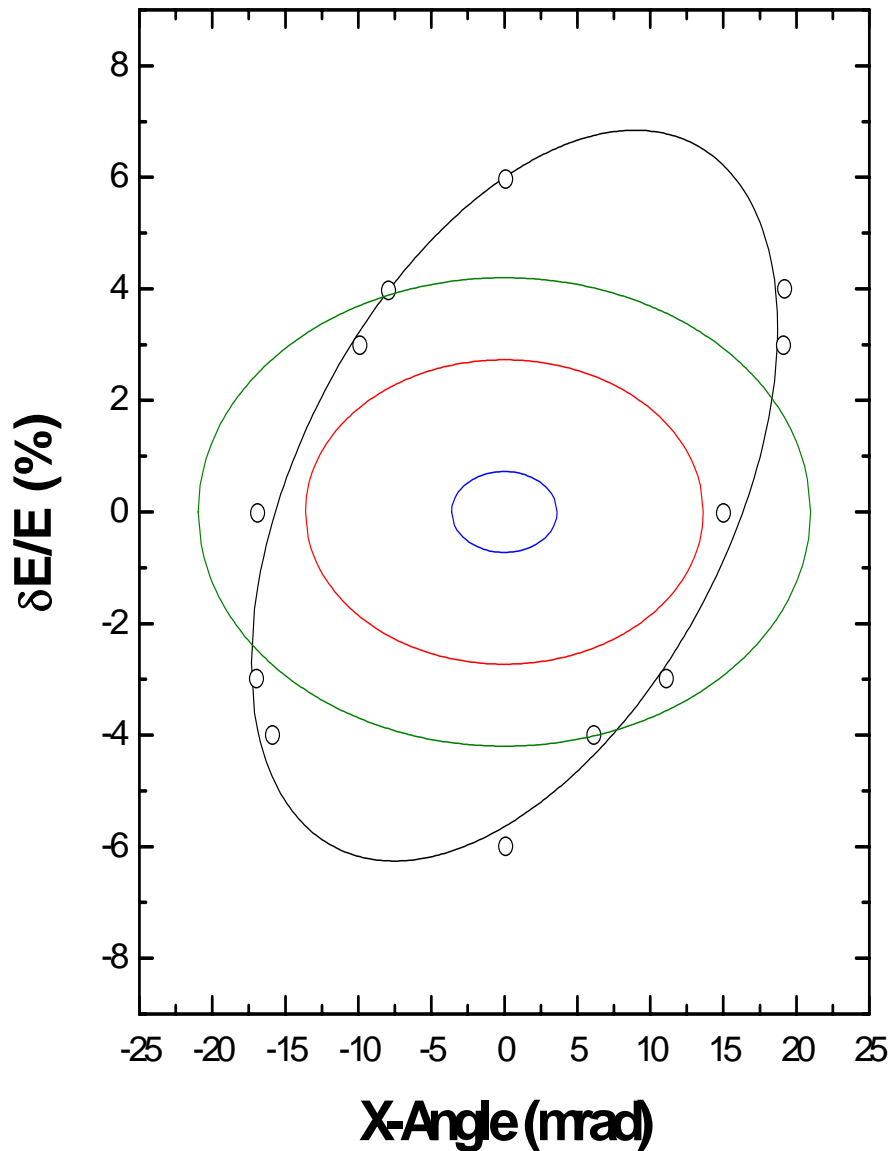## Maximum recoil angles as a function of centre of mass for $^{11}C(p, \gamma)^{12}N$ reaction

Maximum relative energy difference as a function of centre of mass for $^{11}C(p, \gamma)^{12}N$ reaction

Dragon acceptance analysis for the $^{11}C(p, \gamma)^{12}N$ reaction

The ellipses from inside to outside represent:
$^{11}C(p, \gamma)^{12}N$ reaction at $E_{cm} = 0.2$ MeV
$^{21}Na(p, \gamma)^{22}Mg$ reaction at $E_{cm} = 0.205$ MeV (PRL90,2003)
$^{12}C(\alpha, \gamma)^{16}O$ reaction at $E_{cm} = 2.25$ MeV