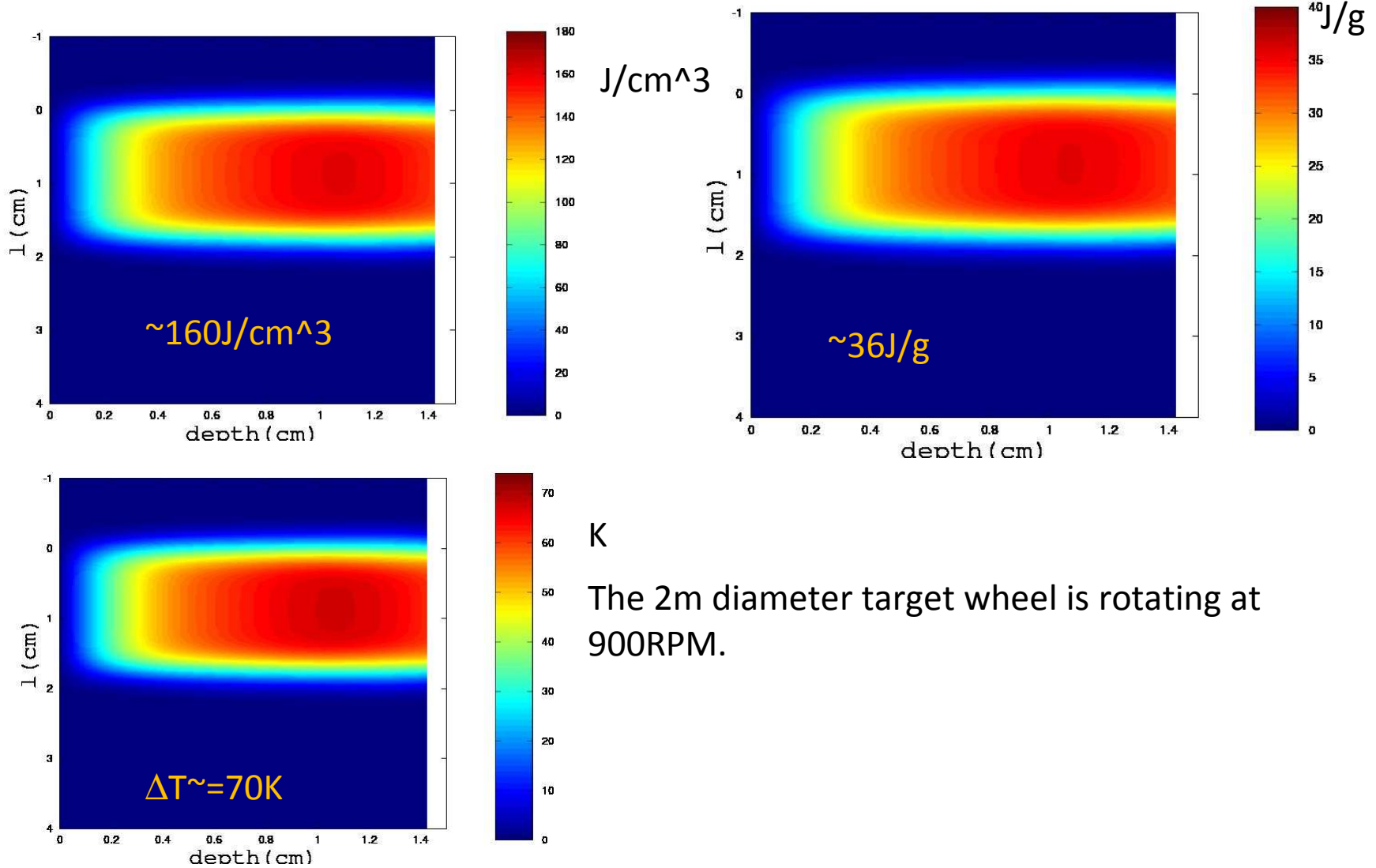


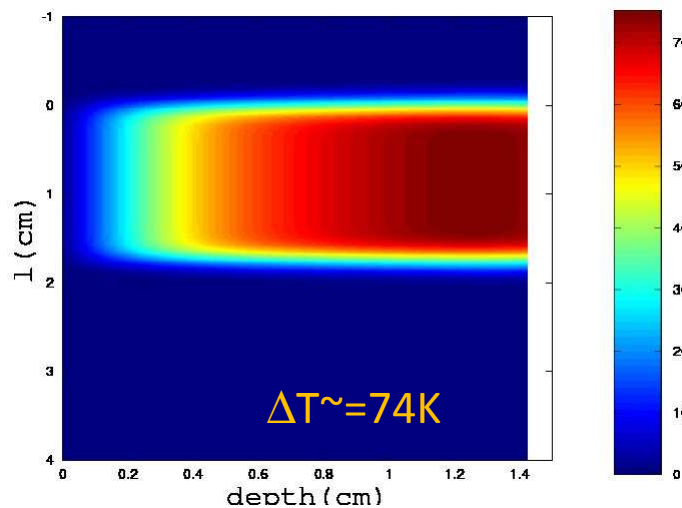
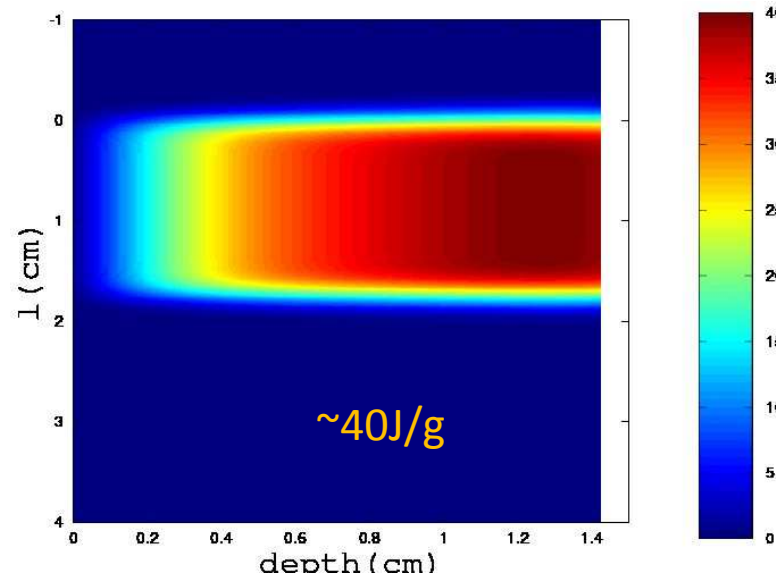
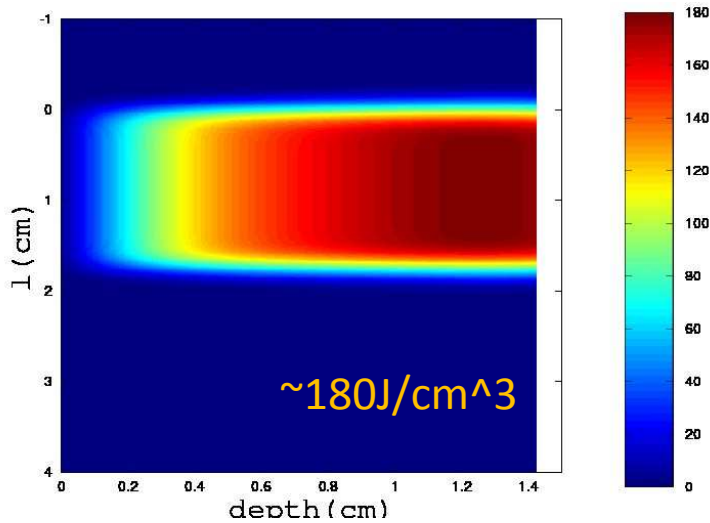
150GeV and 250GeV,
the effect of energy deposition

Energy density and estimated temperature change after 500 bunches. RDR undulator, 150GeV drive , AMD Immersed 0.4X0 Ti target. $2e10$ e+ assume captured



K
The 2m diameter target wheel is rotating at 900RPM.

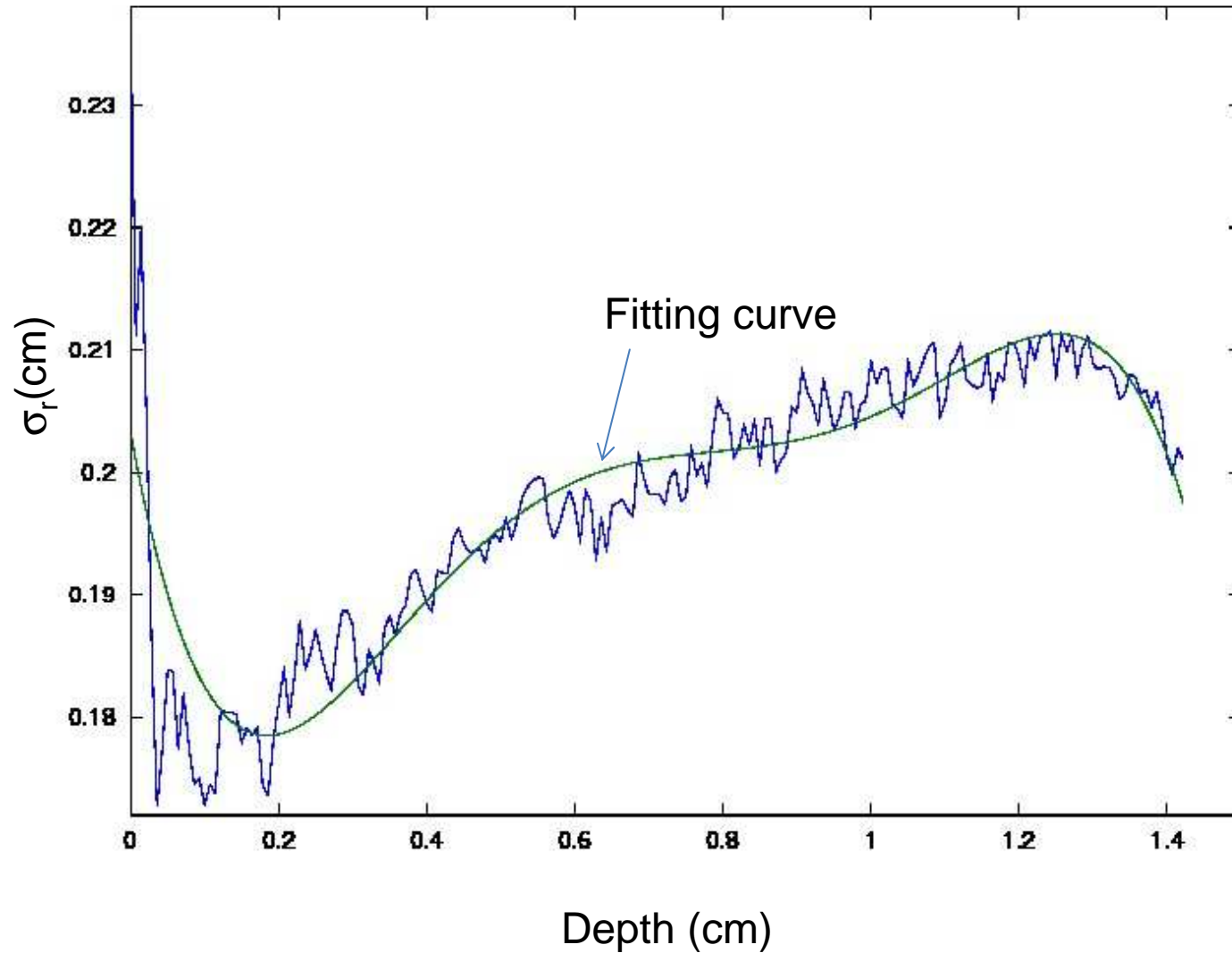
Energy density and estimated temperature change after 500 bunches. RDR undulator, 250GeV drive , AMD Immersed 0.4X0 Ti target. $2e10$ e+ assume captured



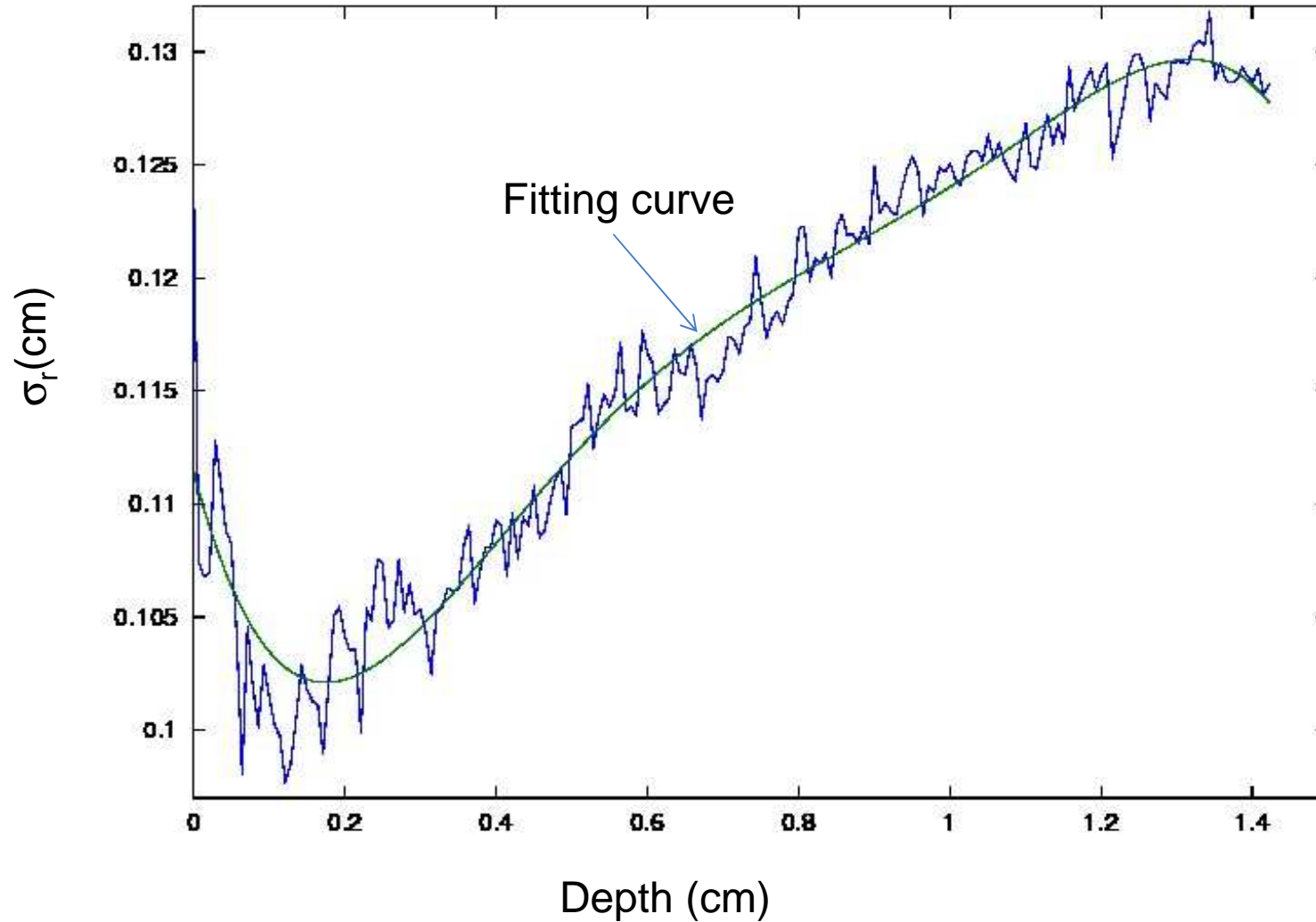
The 2m diameter target wheel is rotating at 900RPM.

Even though the energy density per bunch is $\sim 60\%$ higher for 250GeV drive beam when comparing with 150GeV drive beam, the accumulated effect is not significant due to the smaller spot size from 250GeV drive beam.

σ_r of deposit energy profile 150GeV drive beam, RDR undulator



σ_r of deposit energy profile 250GeV drive beam, RDR undulator



Longitudinal profile of energy deposition, RDR undulator

