



Simulation of giant molecular cloud formation in the barred galaxy M83 (NGC5236) using Enzo

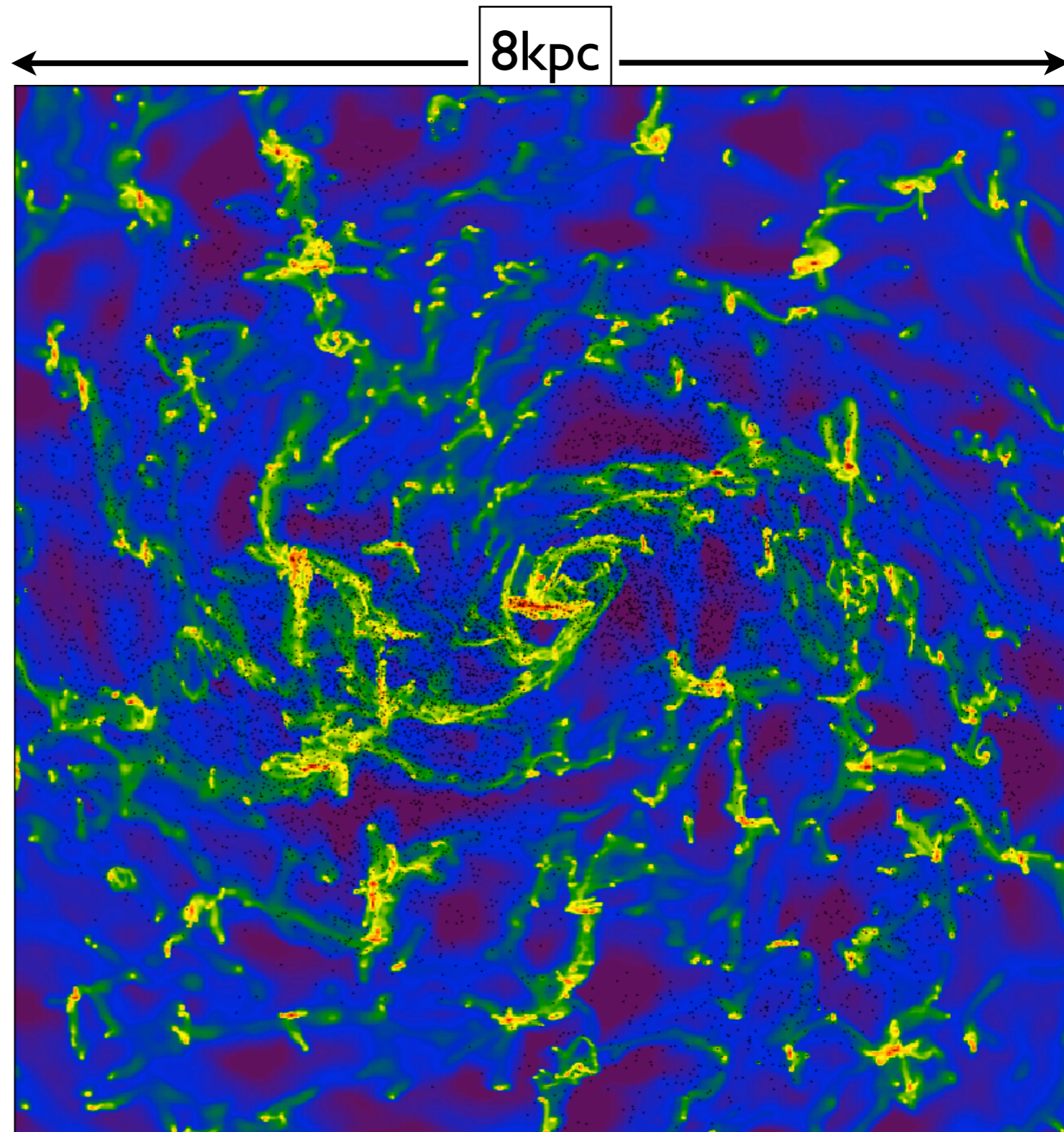
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Enzo : 3D AMR code

Size : $(50 \text{ kpc})^3$ Root grid : 128^3

Minimum resolution : \sim **3pc** (1 = 7)

Radiative cooling : $T > 300\text{K}$



Surface density plot

