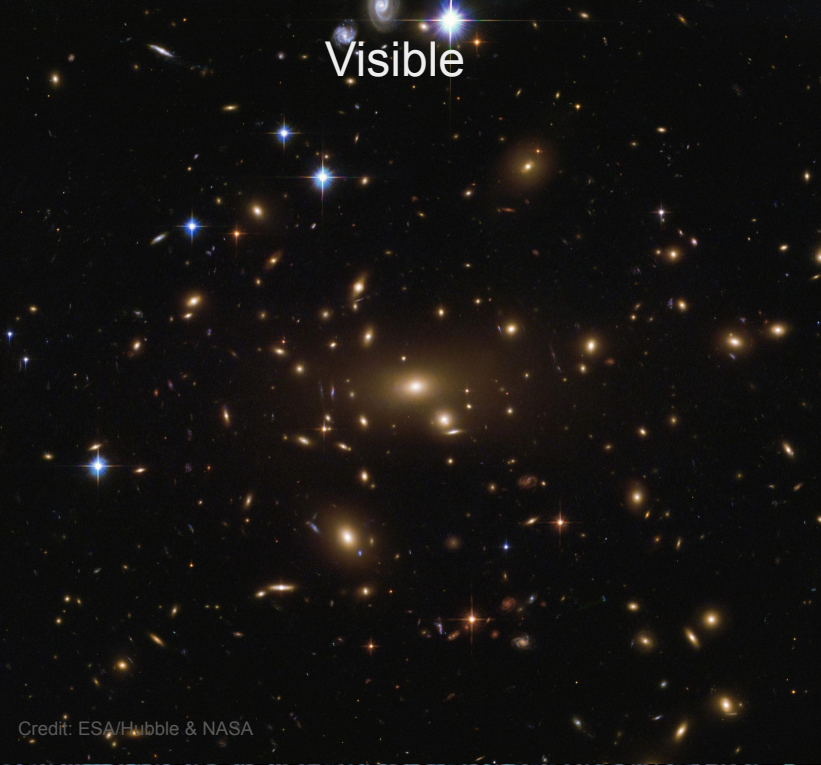
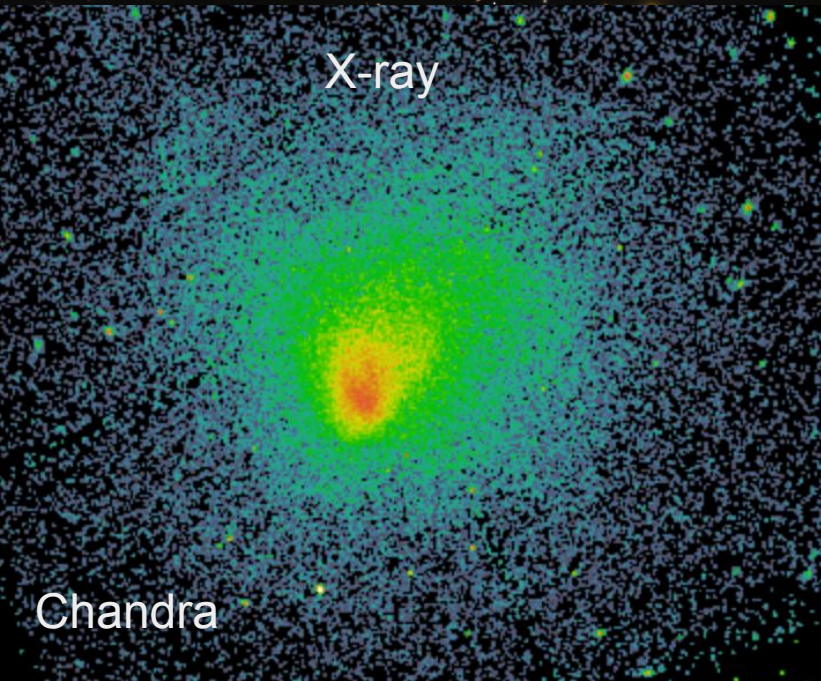


Visible



Credit: ESA/Hubble & NASA

X-ray

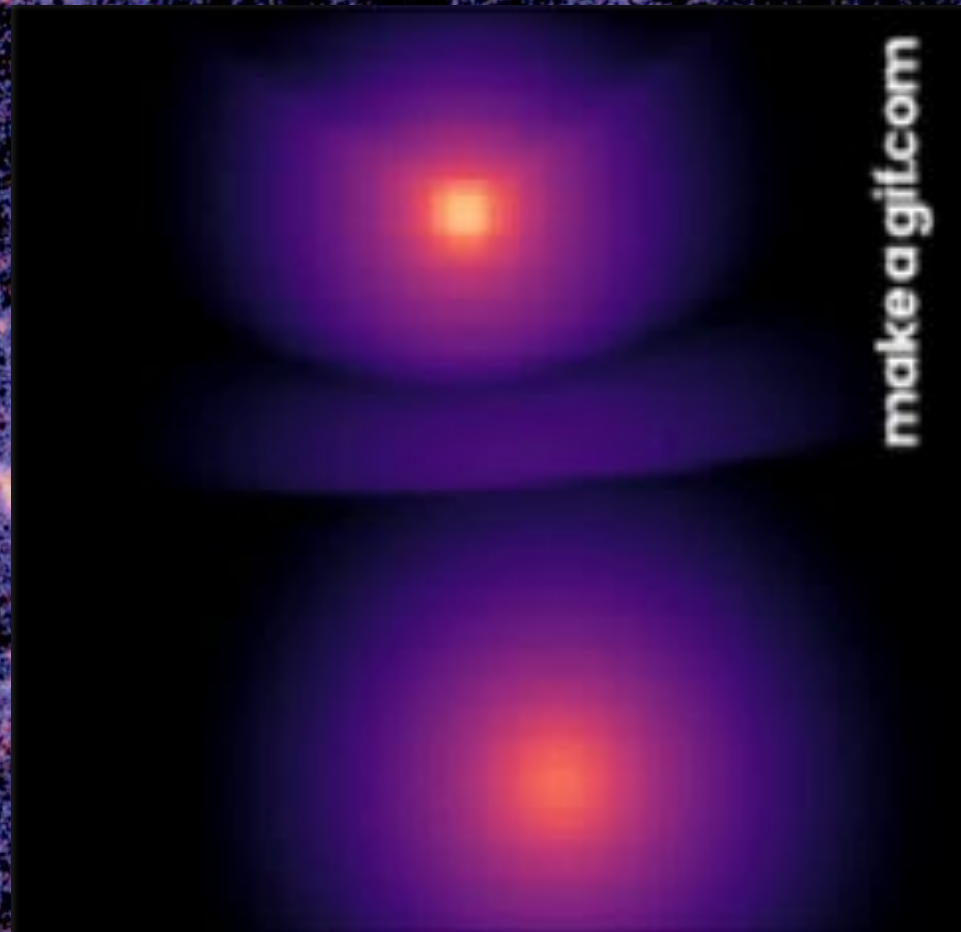
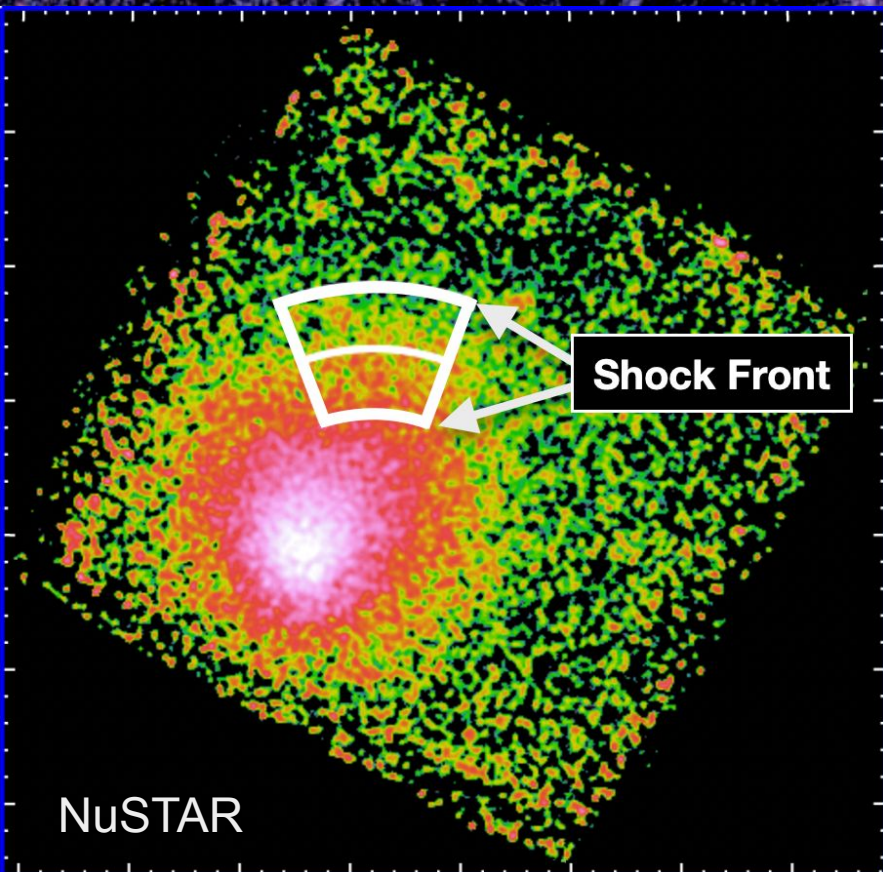


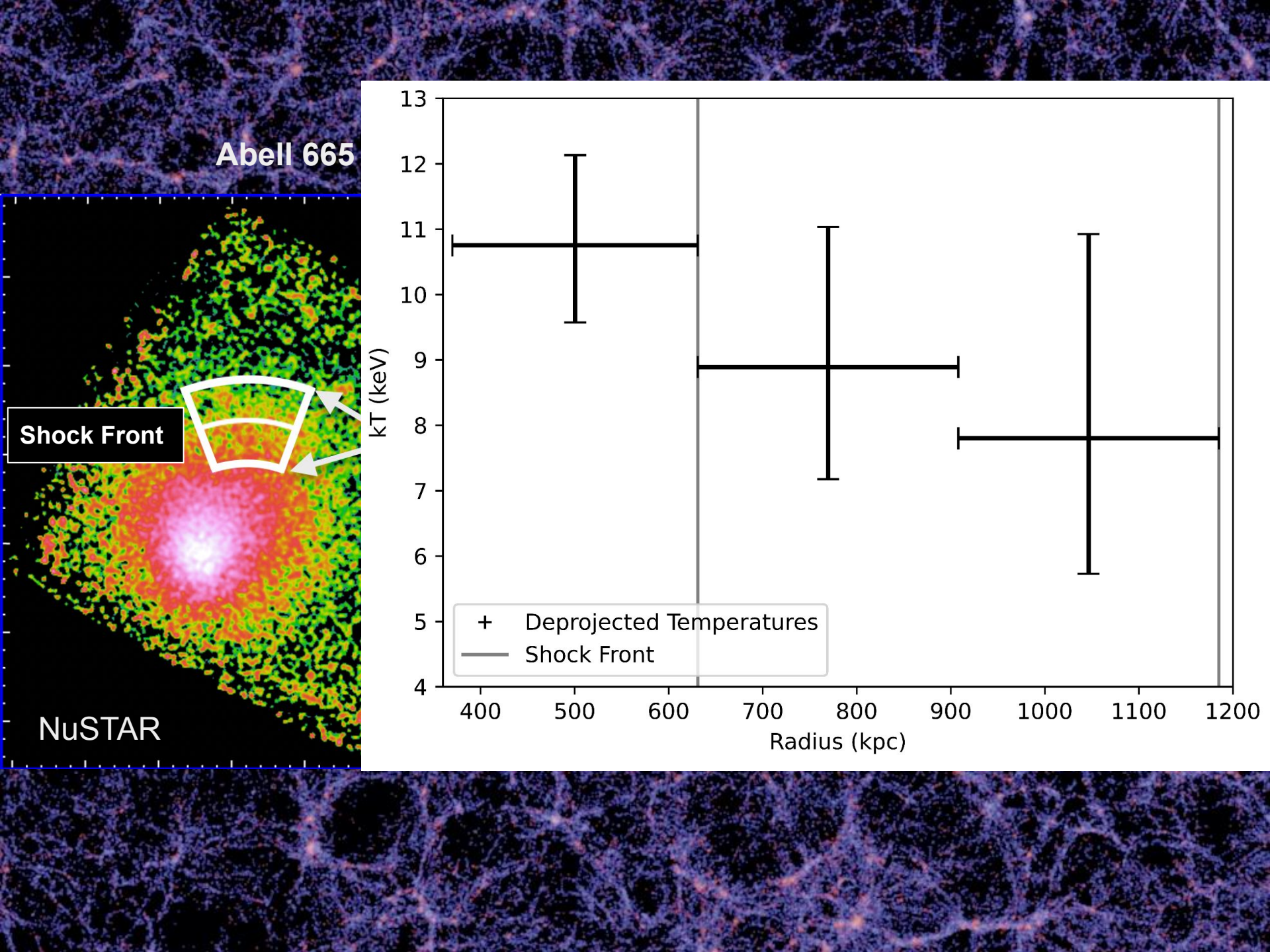
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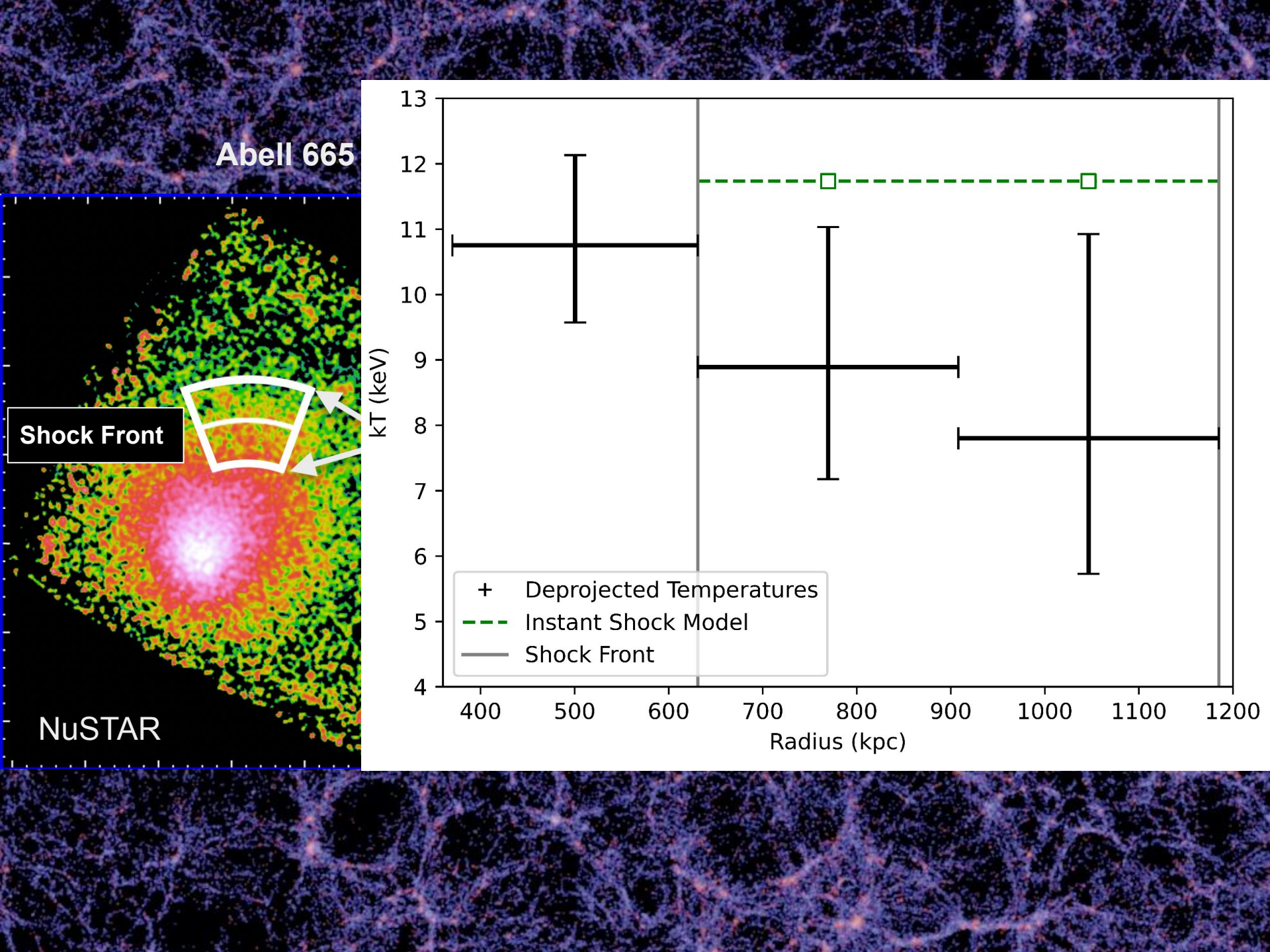
Galaxy Cluster Merger Thermalization Timescales

Christian Norseth
Advisor: Dan Wik

Abell 665







Data Favors Delayed Equilibration

Abell 665

Shock Front

NuSTAR

