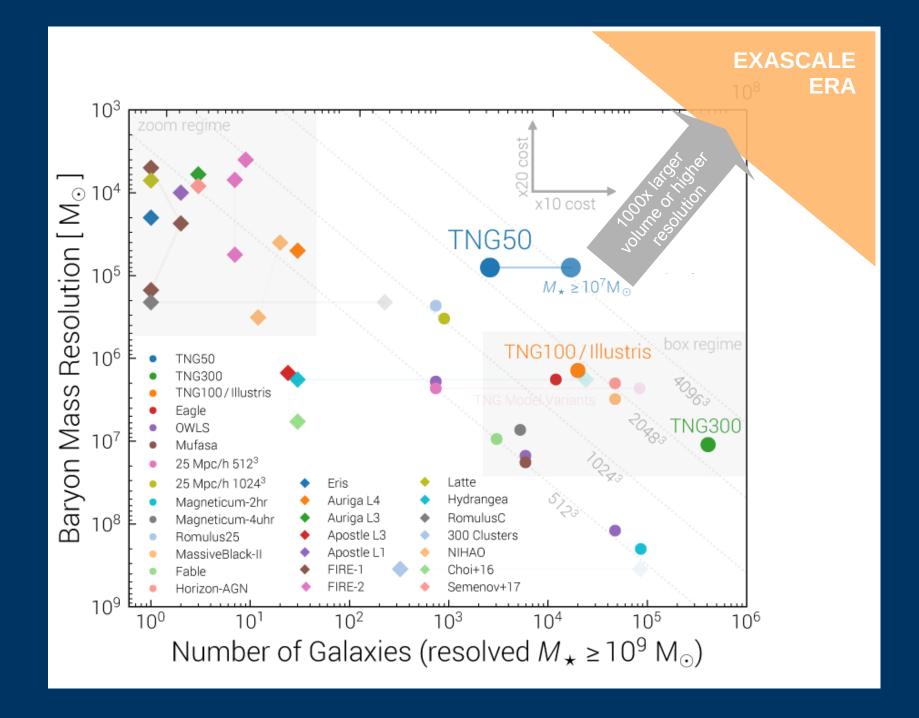
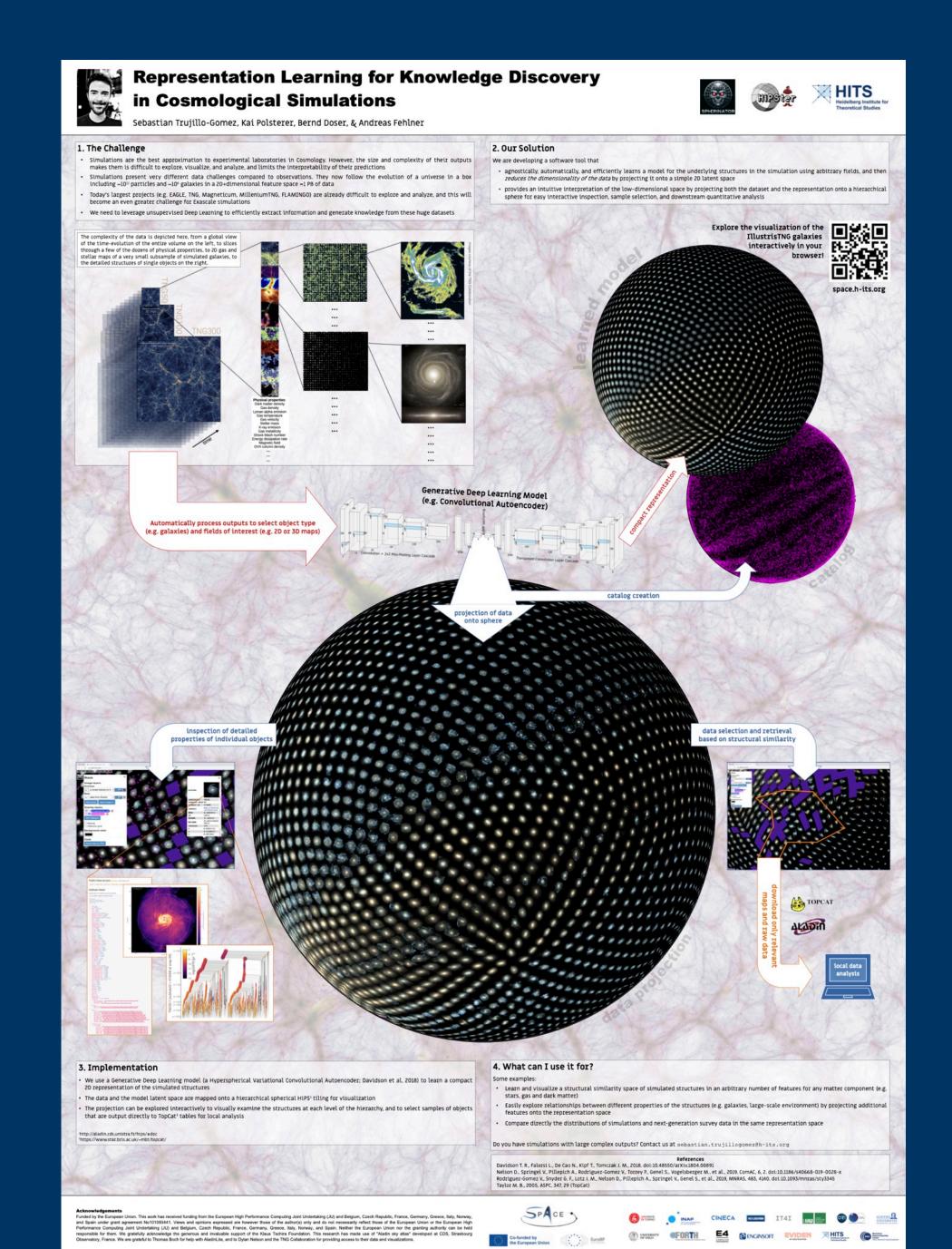
Knowledge discovery in simulations using Representation Learning

- Exploration and analysis of large, high-dimensional datasets from any cosmological simulation in preparation for Exascale era
- Similarity space based on the intrinsic distribution of the data
- Browser demo available at space.h-its.org



Sebastian T. Gomez (HITS, Heidelberg)

Building Galaxies from Scratch / 22.2.2024 / Vienna



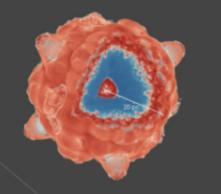
Cloud Formation by Supernova Implosion

Leonard Romano, Manuel Behrendt, Andreas Burkert

New characterization of

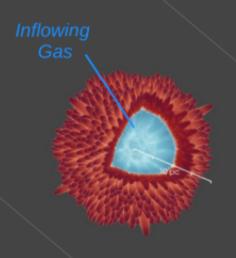
radiative stage &

merging with ISM



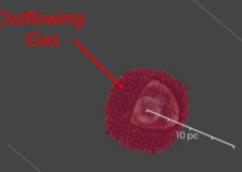
d) Cloud formation(t ≥ few Myr)

 $M_{cloud} \sim 10^3 - 10^4 M_{\odot}$



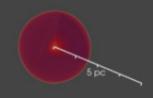
c) Implosion (t ≤ few Myr)

> $P_{shell} \sim P_{ISM}$ $\dot{M}_{in} > 0$



b) Momentum Conserving Snowplow (t \leq 20 - 100 t_{sf})

 $P_{\text{shell}} \gg P_{\text{ISM}}, P_{\text{Bubble}}$ $M_{\text{Bubble}} \sim 0$



a) Pressure Driven Snowplow

$$(t < 3 - 5 t_{sf})$$

 $P_{\text{Bubble}} \gg P_{\text{shell}} \gg P_{\text{ISM}}$

 $\dot{M}_{Bubble} < 0$



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