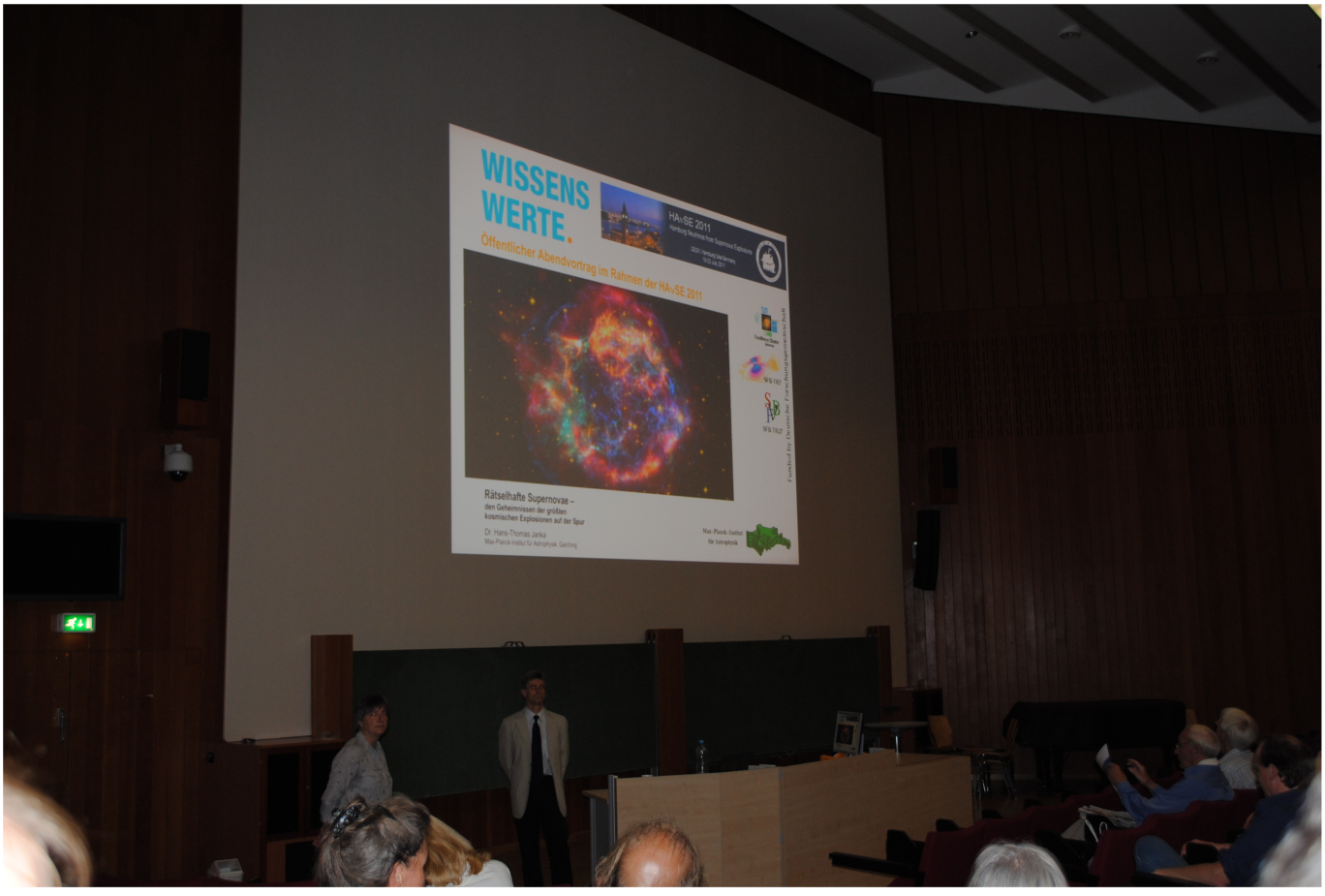
WISSENS
WERTE.
Öffentlicher Abendvortrag im Rahmen der HAνSE 2011
HAνSE 2011
Rätselhafte Supernovae –
den Geheimnissen der größten
kosmischen Explosionen auf der Spur
Dr. Hans-Thomas Janka
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Max-Planck-Institut
für Astrophysik

Background (DSAB)
core-collapse SNe comparable to photons from all stars
Supernova Neutrino Background (DSNB) similar energy density as
extra-galactic background light (EBL), approx 10% of CMB energy density
DSNB probably next astro neutrinos to be measured
Axions with $m_a \sim 10$ meV
near SN 1987A energy-loss limit
Provide DSAB with compable
energy density as DSNB and EBL
No obvious detection channel
Raffelt, Redondo & Viaux
work in progress (2011)
Georg Raffelt, MPI Physics, Munich
HAνSE 2011, DESY Hamburg, 19–23 July 2011
HAνSE ★ 2011
Particles, Strings,
and the Early Universe