



European Astronomical
Society Annual Meeting
EWASS

SS16b

Registering the Universe at
the highest spatial accuracy

(Re)solving the riddle about the size of
GRB170817A through global VLBI
observations
by

Om Sharan Salafia

INAF – Osservatorio Astronomico di Brera, Milan, Italy
INFN – Sezione di Milano-Bicocca, Milan, Italy



Intro: gravitational waves (GW)



["Gravitational Waves", artwork by Penelope Cowley]

Perturbations of space-time metric
(a.k.a. gravity)

Produced by mass-energy distributions
whose **quadrupole** moment accelerates

Propagate at **c** (experimentally!)

Cause dilation/contraction
perpendicular to propagation