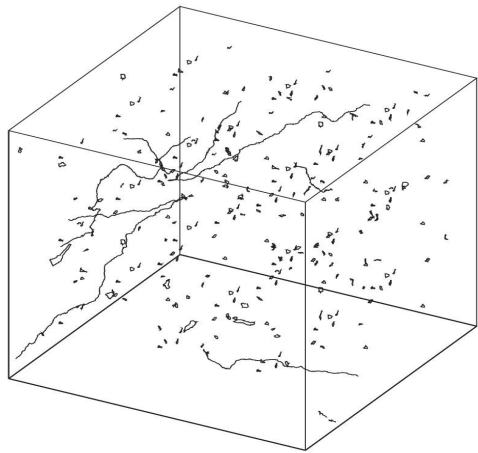


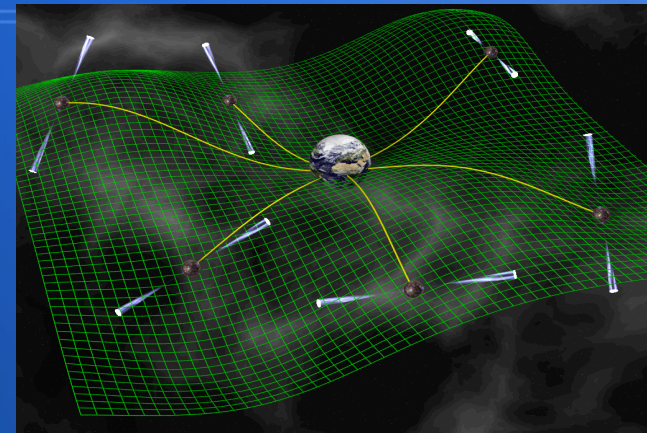
Constraining the SGWB of cosmic strings using PTAs

(or, “what science can you do with something you can't see, on something you don't know that exists”)



SGWB: $h(G\mu, \alpha, p, n_s, q)$
(...and some more...)

Limit on the string linear energy density:
 $G\mu < 5.3 \times 10^{-7}$



2011 EPTA limit on SGWB:
 $h < 6 \times 10^{-15}$ @ 32nHz

Field Theory:

- Constrain the energy scale of GUT



String Theory:

- Constrain the fundamental string coupling
- Information about extra dimensions