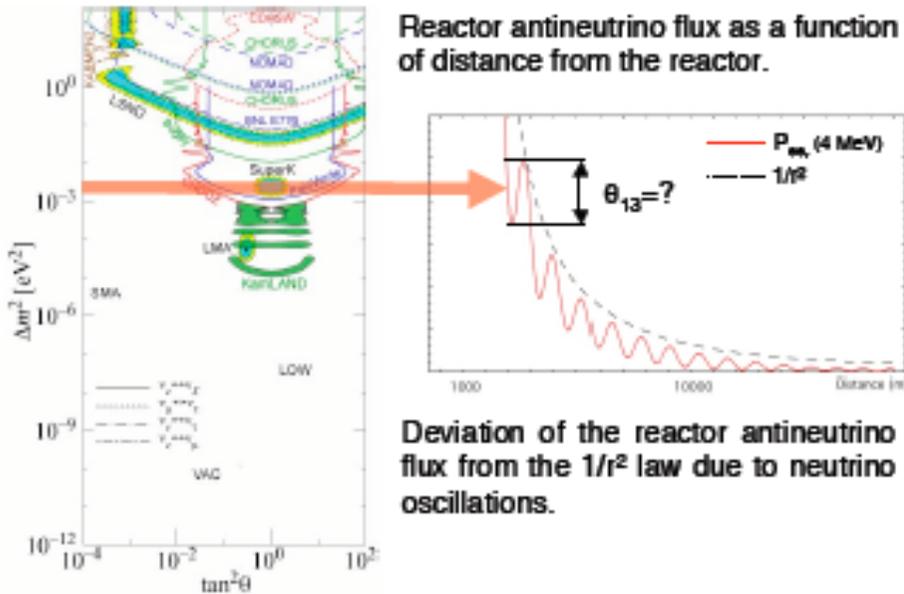
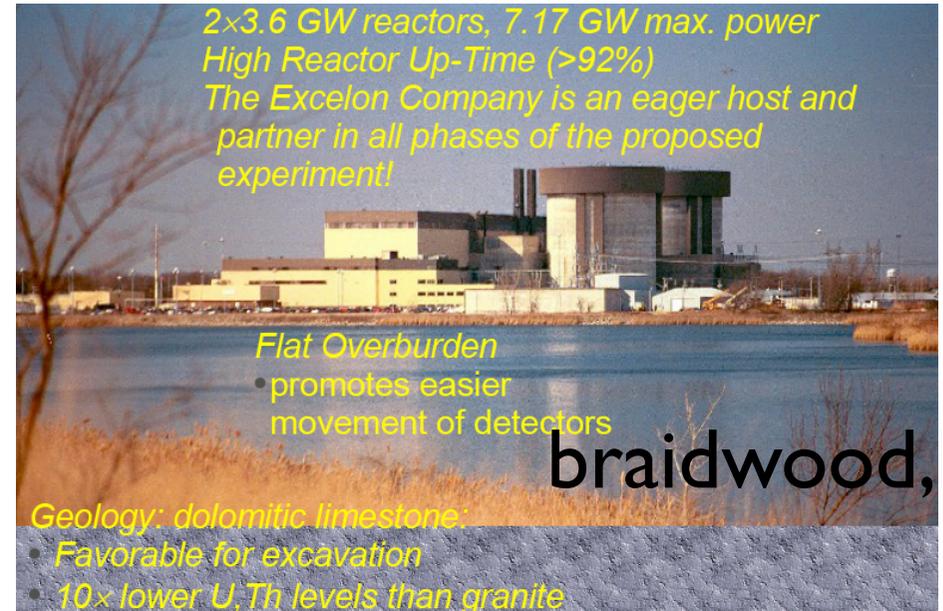


# Possible BNL physics role in a reactor neutrino experiment



$$P_{ee} \approx 1 - \sin^2 2\theta_{13} \sin^2 \frac{\Delta m_{31}^2 L}{4E_\nu} + \left( \frac{\Delta m_{21}^2 L}{4E_\nu} \right) \cos^4 \theta_{13} \sin^2 2\theta_{12}$$

- Important physics
- Two possible experiments, No submitted proposal yet.
- BNL Chemistry already important collaborators.
- Very good fit for HEP at BNL in terms of our technical expertise.



braidwood, IL

