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Current Limits

from Vieregg CSS13
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Future Sensitivities

from Connolly CSS13
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What experiments: those I showed in my talk.
Next Generation

ARA: Askaryan Radio Array

ARA37

Deployed ARA Station
Planned ARA Station
Planned for 2014/15

ARIANNA

from Viereggs CSS13
Greenland Ice Thickness

from Vieregg CSS13

EVA: ExaVolt Antenna

reflector

feed array @ focus
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How important: - 100 TeV CM neutrino interactions!!!
- Understand Cosmic Accelerators
Tests of UHE Neutrino Interactions

\[ N_{ES} \approx C_{ES} \frac{\Phi^\nu}{\Phi^0} \frac{\sigma^\nu^2}{(\sigma^\nu_{CC} + \sigma^\nu_{NP})^2} \]

\[ N_{QH} = C_{QH} \frac{\Phi^\nu}{\Phi^0} \frac{\sigma^\nu}{\sigma^\nu_{CC}} \]

\[ \sigma(\nuN \rightarrow BH) \text{ for } n = 1, \ldots, 7 \]

\[ M_D = 1 \text{ TeV} \]

\[ \sigma(\nuN \rightarrow \ell X) \]

Gandhi et al.'96

[Graph showing neutrino energy (GeV) vs. cross-section (pb)]