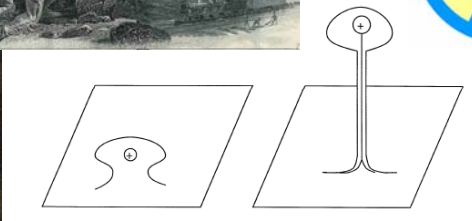
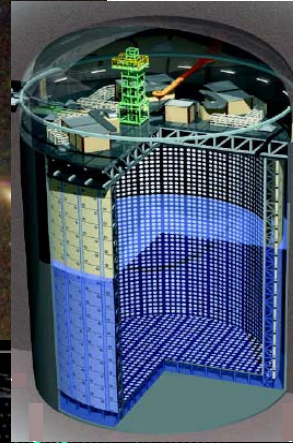
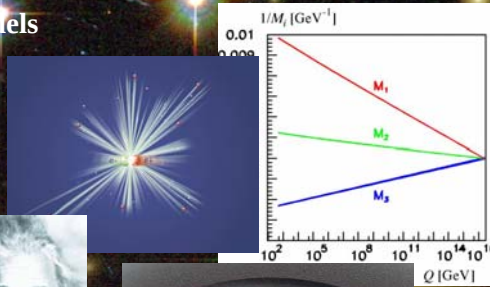
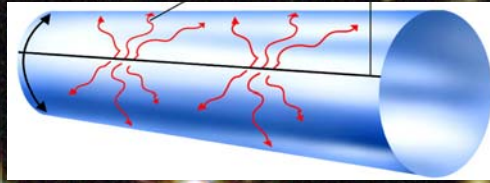


"Search for Baryon and Lepton number violation"

International Workshop September 20-22, 2007 at LBL, Berkeley

Workshop Topics

- E-W SM sphaleron transition and violation of (B-L)
- Role (B-L) in baryogenesis and cosmology
- Role of V(B-L) in models of leptogenesis
- Relation of (B-L) with Left-Right Symmetry violation
- Violation of global quantum numbers in extra-dim models
- Status of V(B-L) in proton decay search and models
- New PDK search experiments and V(B-L)
- V(B-L) nucleon decays like $n \rightarrow 3\nu$ and others
- N-Nbar oscillations, models and possible observation
- Future experimental plans for N-Nbar search
- Majorana neutrino searches and $0\nu\beta\beta$ decay
- Sterile neutrinos
- Mirror matter search in $n \rightarrow n'$
- Search for tau decays with V(B-L)
- Search for V(B-L) in hyperon decays
- Search for mirror matter at LHC and ILC
- Searches for B, L, and B-L violation at LHC and ILC



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Georgi Dvali/NYU
Martin Einhorn/UCSB
Maurice Goldhaber/BNL
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James Stone/BU
Atsuto Suzuki/KEK
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Edward Witten/IAS
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$$\tau^- \rightarrow n + \pi^-$$

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$$\mathcal{L} = \mathcal{L}_{\text{SM}} + \frac{1}{\Lambda} \mathcal{L}_5 + \frac{1}{\Lambda^2} \mathcal{L}_6 + \dots$$

