

## Improvement of event selection of proton decay searches

*Monday 14 January 2013 13:25 (15 minutes)*

This talk will present studies toward the improvement of proton decay event selection at HK using shape information from the signal and background distributions instead of pure counting methods used in proton decay searches at SK thus far. Emphasis will be on the  $p \rightarrow e + \pi^0$  mode.

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**Session Classification:** Physics Potential