



Contribution ID: 378

Type: **Poster**

A Search for dinucleon decay into pions at Super-Kamiokande

It is important to study possible baryon number violating processes from a variety of contexts. In this poster I will discuss processes that violate baryon number by two units, starting with two bound nucleons and ending with multiple pions. These will be discussed in the context of the Super-Kamiokande water Cherenkov detector, which has typically focused on single-nucleon decays. Searches for the modes $pp \rightarrow \pi^+\pi^+$, $pn \rightarrow \pi^+\pi^0$, and $nn \rightarrow \pi^0\pi^0$ are discussed, and preliminary results are presented.

Primary author: Mr GUSTAFSON, Jeffrey (Boston University)

Presenter: Mr GUSTAFSON, Jeffrey (Boston University)

Track Classification: Other / Global Projects