

## CWSF 2012 - Charlottetown, Prince Edward Island



### Jiayin Huang, Benson Wan

#### The Ultimate Fate of Our Universe

**Challenge:** Discovery

**Category:** Intermediate

**Region:** Toronto

**City:** Toronto, ON, North York, ON

**School:** Marc Garneau Collegiate

**Abstract:** The ultimate fate of the universe is considered. Factors that affect it and various theories are explained. Space-time curvature, the expansion rate of the universe, and the energy density of the universe all determine how the universe will end. There are still many mysteries about dark matter and dark energy.

#### Biographies

Jiayin - My name is Jiayin Huang. I live in Toronto, Ontario. I go to a specialized science and math program called TOPS. I enjoy variety of things, such as reading, watching videos, and playing computer games. I do not enjoy sports requiring the use of projectiles that have large amounts of kinetic energy. The idea for the topic of my project, the ultimate fate of the universe, from a couple of different places. It came from the short story "The Last Question", and also from the energy virus in "Ed Stories".

Benson - My name is Benson Wan, and I go to TOPS, a specialized program for the sciences. I volunteer regularly, in activities ranging from selling Christmas Trees for Scouts, or proctoring entrance exams. I like math and science, and any logical activities, including chess and Starcraft 2. After high school, I plan on pursuing a Life Sciences course somewhere, and then becoming a specialized physician. I have had awards for doing well in math contests such as the CNML, Gauss, and Euler. Some fun experiences that I have had include the Toronto Wide Science Fair, a week-long camp at Halliburton, and paintballing with friends. I got inspiration from my ...

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