FEATURING: Dr. Patrick Huber, Assistant Professor in the Physics Department, Virginia Tech. The “neutrino is the mysterious particle that comes from the sun, with billions of them flowing through our bodies every second. They interact so weakly that most of them go straight through the Earth. There exist three flavors of neutrino, but the most peculiar thing about them is that their “flavor” can change during flight. On cosmic scales they are involved in all really big events, like the cooking of the of the very first chemical elements, the death of a star and the birth of a black hole. Some speculate that they are the very reason not all matter and anti-matter vanished in a giant flash of light when the Universe was only a mere billionth of a second old. Today, there would be no sun light nor could our solar system exist without neutrinos, and yet, they were only discovered in the 2nd half of the 20th century.

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WHERE: Awful Arthur’s Seafood Co., corner of Draper and Washington, Blacksburg

WHEN: Tuesday, January 26th, 2009, 7 - 9 pm

Project Poltergeist: The Particle That Can Change Flavor