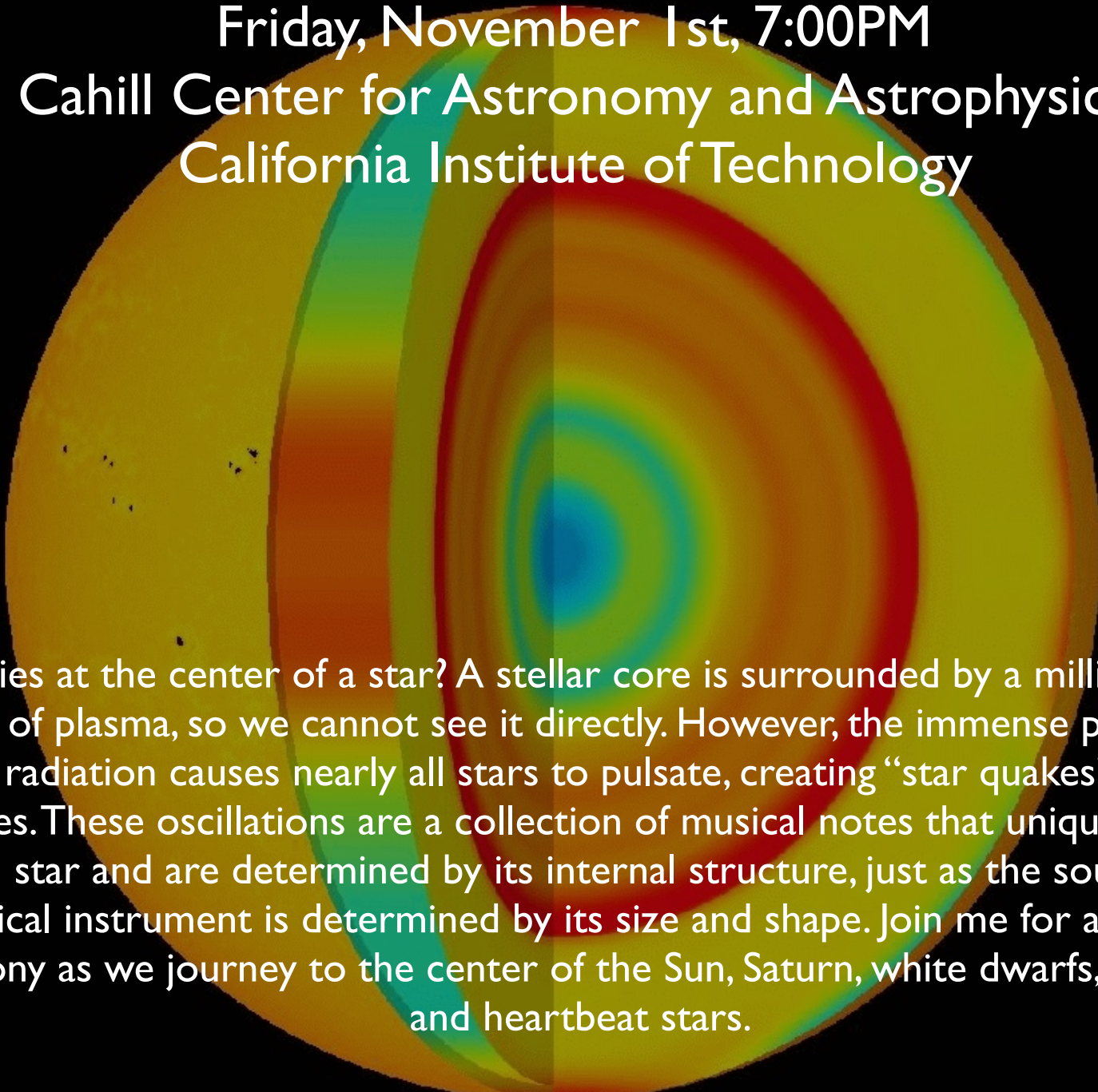


**Sounds of the Stars:  
Imaging Star Guts with Cosmic Music**

A Lecture by Jim Fuller

Friday, November 1st, 7:00PM

Cahill Center for Astronomy and Astrophysics  
California Institute of Technology



What lies at the center of a star? A stellar core is surrounded by a million Earth's worth of plasma, so we cannot see it directly. However, the immense power of a star's radiation causes nearly all stars to pulsate, creating "star quakes" at their surfaces. These oscillations are a collection of musical notes that uniquely define each star and are determined by its internal structure, just as the sound of a musical instrument is determined by its size and shape. Join me for a cosmic symphony as we journey to the center of the Sun, Saturn, white dwarfs, red giants, and heartbeat stars.

Image Credit: SOHO (ESA & NASA)

These are free lectures at a public level followed by guided stargazing with telescopes (weather permitting). All events are held at the Cahill Center for Astronomy and Astrophysics at Caltech. No reservations are needed. Lectures are 30 minutes, stargazing lasts 90 minutes. Stay only as long as you want.

For directions, weather updates, and more information, please visit:

<http://outreach.astro.caltech.edu>