# Bellevue College LIGO Group

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## Bellevue College

- Primarily associate degree-granting four-year institution of higher learning
- Public, open-access, community-based
- ~33,000 student annually
- Diverse student body
- Physics department
  - Enrolls ~950 students per year in entrylevel courses
  - Offers all calculus-based sequence classes every term





#### BC LIGO Activities: Stochastic

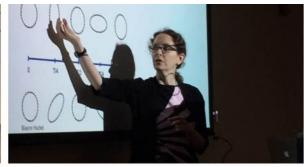
- Study of how intermittent signals from transients might affect measurements of stochastic background
  - Intermittent signals might arise from environmental, instrumental, and astrophysical sources
  - Simulate software signals characteristic of transients (e.g. combs, Gravity Spy glitches), and analyze with stochastic search pipeline
  - Will inform interpretation of signal

#### BC LIGO Activities: EPO

- Students present research to campus community
- Talks to students about gravitational waves and LIGO
- Updates to FAQ at ligo.org









### Additional interests

- Studies show early research opportunities help retain students in STEM fields
- BC RISE Learning Institute has central aim of helping faculty develop research learning opportunities for students
- RISE houses locally-developed ComGen course
  - Classroom-based undergraduate genomics research

#### Please contact Gwynne if interested in discussing classroom-based LIGO research!





#### Future

- Continuing and expanding investigations into how intermittent transient signals might affect future stochastic gravitational-wave searches
- Develop classroom-based undergraduate research capitalizing on the interest and excitement around gravitational waves
  - Interested in collaborations!
- Contributing to EPO: FAQ, etc.