

UNDERGRADUATE MATH SEMINAR

The next math seminar will be

DATE: THURSDAY, February 9
Time & 12:30 – Refreshments in Bailey 204
Location: 12:50 – 1:45 Seminar in Bailey 207



Professor Christina
Tønnesen-Friedman

Title: Constant Scalar Curvature Sasaki Metrics – Calculus to the Rescue!

Abstract: My collaborators, Charles P. Boyer, Hongnian Huang, and Eveline Legendre, and I recently discovered a family of so-called Sasakian manifolds that permit a choice of a Sasaki metric with constant scalar curvature. A crucial technical step in our work was essentially “just” a really neat calculus exercise. The aim of this talk is to make a beeline to this calculus and hopefully convince you that knowing how to do, by hand, integration-by-parts will never go out of style.

HRUMC – Saturday, April 1: Register Now!

The 29th Hudson River Undergraduate Mathematics Conference (HRUMC) will be **Saturday, April 1st**, at **Mount Holyoke College** in South Hadley, MA. It is a free conference, and the math department will arrange transportation for those interested in attending.

The HRUMC is a one-day mathematics conference held annually each spring, attended by students and faculty from colleges and universities throughout New York and New England. It was founded by four colleges, Siena, Skidmore, **Union**, and Williams, with the goal of providing undergraduates with the experience of attending and/or presenting at a professional mathematics meeting and was designed primarily with the student in mind. It is the premier regional undergraduate mathematics conference after which several others have been subsequently modeled nationwide.

Students who have attended HRUMC generally rave about the experience, saying how great it was to support the Union speakers, to meet students from other colleges, and to hear about some exciting math that students and faculty at other schools are doing. It is also a great way for underclass math majors to start thinking about their own math theses.

The conference features short, 15-minute talks *primarily by students* and faculty, as well as a longer invited address by a noted mathematician.

- If you are interested in **presenting a talk** (based on summer research, a thesis, a project, or problem you enjoyed, etc.) contact a math faculty member to sponsor it.
- If you are interested in **attending the conference or knowing more about**, email **Professor Paul Friedman** (friedmap@union.edu).

Conference registration and abstract submission (**deadline, March 6**) are through the HRUMC website, [HRUMC](#) (also findable from Union Math Department website -> Activities -> HRUMC).



QR to the
HRUMC

Calculus Help Center
Sunday-Thursday, 7:30-10:00pm,
Sorum House Seminar Room