

Millersville University and Franklin & Marshall College

Speaker:	Dr. Daniel Smertnig Department of Pure Mathematics University of Waterloo
Topic:	Factorization theory of cluster algebras
Date:	November 29, 2018 (Thursday)
Time:	4 – 5 p. m.
Place:	Stager 219, Franklin & Marshall College
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Abstract: Cluster algebras were introduced by Fomin and Zelevinsky in 2002. They have quickly gained wide interest in the community, as they are connected to many fields of mathematics. Cluster algebras are defined in terms of combinatorial data, specifically a quiver together with a mutation process. On the other hand, the study of factorizations of elements, analogous to the factorization of integers into primes, is a classical topic in commutative algebra.

In this talk I will introduce cluster algebras and describe recent results on their factorization theory. The talk will be accessible to a general mathematical audience.

This is joint work with Ana Garcia Elsener and Philipp Lampe. arXiv:1712.06512.

