



**Department of Mathematics and Statistics**

**COLLOQUIUM**

**Tuesday, January 13<sup>th</sup>, 2015**

4:00 – 5:00 pm, Adel Mathematics Bldg., Room 164  
(refreshments at 3:45)

**Dr. Bhupendra Paudyal**

NAU

**Invariant subspaces of the shift plus complex Volterra operator.**

**Abstract:** The invariant subspace problem is an important problem in operator theory. I will begin my talk with the introduction of invariant subspace problem and discuss some recent approaches to the problem. Then I will present our work on the lattice of closed invariant subspaces of the shift plus complex Volterra operator acting on the Hardy space.

(This is a joint work with Zeljko Cuckovic)

Algebra Combinatorics Geometry and Topology (ACGT) Seminar will *begin* Tuesday January 20<sup>th</sup>, 12:45 – 1:45 pm, AMB 164.

Applied Math Seminar (AMS): Thursday, January 15<sup>th</sup>, 12:45 – 1:45 pm, AMB 164. *Organizational Meeting.* After scheduling the first few series of talks, we can perhaps discuss Dana Ernst's web-based plan for posting schedules/titles/flyers/abstracts for all seminars.

Friday Afternoon Undergraduate Mathematics Seminar (FAMUS) will *begin* Friday January 23<sup>rd</sup>, 3pm.