

## ***FELIX KLEIN SEMINAR***

**Speaker: Olguta Buse**

**Indiana University Purdue University  
Indianapolis**

***Date:*** Thursday, April 21, 2022

***Time:*** 12:00 PM

***Location:*** 258 Hurley Hall

***Zoom URL:*** NA



***Lecture Title:***

**On the homotopy of symplectomorphism groups of blown up ruled surfaces**

***Abstract***

We will discuss some recent results on the symplectomorphism groups of blow ups of nonrational ruled symplectic surfaces. We partition the symplectic cones of such manifolds into chambers within which the homotopy type of the symplectomorphism groups is conjectured to remain unchanged. We prove results towards the conjecture by studying the spaces of  $J$  holomorphic curves for all  $J$  almost complex structures. This results are joint work with Jun Li.