

**On certain duality of Neron-Severi lattices of
supersingular K3 surfaces
(a joint work with Ichiro Shimada)**

**Shigeyuki Kondo
(Nagoya University)**

Abstract:

A K3 surface defined over an algebraically closed field is said to be supersingular (in the sense of Shioda) if the rank of its Neron-Severi lattice is 22. Supersingular K3 surfaces exist only when the base field is of positive characteristic. In this talk, we present certain duality between Neron-Severi lattices of supersingular K3 surfaces.