

**The CR Ahlfors derivative and a new invariant for
spherically equivalent CR maps**

Duong Ngoc Son

Universität Wien

son.duong@univie.ac.at

Bernhard Lamel

Universität Wien

bernhard.lamel@univie.ac.at

In this talk, I will discuss a notion of the Ahlfors derivative for CR maps. This notion possesses several important properties similar to those of the conformal counterpart and provides a new invariant for spherical equivalent CR maps from strictly pseudoconvex CR manifolds into a sphere. The invariant can be computed easily and distinguishes many well-known equivalent classes of CR maps between spheres. In particular, it vanishes precisely when the map is spherical equivalent to the linear embedding. This is a joint work with Bernhard Lamel.