Contribution ID: **7**                                    Type: **Academic talk (15min)**

# Is IRKA a Riemannian Optimization Method?

*Saturday, 2 July 2022 13:20 (20 minutes)*

We consider the Riemannian submanifold of matrix-valued rational functions of fixed McMillan degree embedded in the Hardy $\mathcal{H}_2$ space and explore whether IRKA can be interpreted as a Riemannian optimization method over this manifold.

**Primary authors:**    Prof.  BEATTIE, Christopher (Virginia Tech);   Prof.  DRMAČ, Zlatko (University of Zagreb);  Prof. GUGERCIN, Serkan (Virginia Tech);  MLINARIĆ, Petar (Virginia Tech)

**Presenter:**   MLINARIĆ, Petar (Virginia Tech)

**Session Classification:**   Scientific program Saturday