

1145-32-1164 **Matvei Libine*** (mllibine@indiana.edu), Dept of Math, Rawles Hall, 831 East 3rd St.,
Bloomington, IN 47405. *New Developments in Quaternionic Analysis from the Point of View of
Representation Theory.*

I will talk about recent development in quaternionic analysis from the point of view of representation theory of the conformal group $GL(2, \mathbb{H}) \approx O(5, 1)$. In particular, I plan to talk about a new algebra structure on quaternionic functions that commutes with the action of $GL(2, \mathbb{H})$. I will not assume knowledge of quaternionic analysis from the audience.

This is a joint work with Igor Frenkel from Yale University. (Received September 19, 2018)