BOSTON UNIVERSITY GEOMETRY AND PHYSICS SEMINAR

ONE RING TO RULE THEM ALL (OR COULOMB BRANCHES AND BEN-ZVI-SAKELLARIDIS-VENKATESH DUALITY OUTSIDE OF THE COTANGENT CASE)

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Abstract: Physicists expect that (under some conditions) a Poisson variety X with an action of a reductive group G should give rise to a an S-dual Poisson variety $\hat{X}$ with an action of the Langlands dual group $\hat{G}$. We present a new construction of this duality which involves a categorical analog of the Weil representation of the symplectic group (studied by Lafforgue and Lysenko) and discuss a connection to the work of Ben-Zvi, Sakellaridis and Venkatesh.

See `http://math.bu.edu/research/geom/seminar.html` or contact Yu-Shen Lin (*yslin@bu.edu*) or Siu-Cheong Lau (*lau@math.bu.edu*) for more information.