## 1176-11-324 Christelle Vincent\*, 82 University Place, Burlington, VT 05401. On the equidistribution of joint shapes of fields and their resolvents. Preliminary report.

In some of his celebrated work, Bhargava extends a parametrization of cubic rings to the case of quartic and quintic rings. This is done by recognizing that one way to do this is by attaching to each ring one or more so-called resolvent rings. This parametrization has led to significant further work on counting number fields, as each number field has a unique maximal ring, and each maximal ring has a unique resolvent ring; this allows one to count maximal ring-resolvent pairs directly instead of number fields.

But what if one needs to associate to a field its resolvent field? In that case, the maximal ring of the resolvent field is not necessarily the resolvent ring of the ring of integers of the original field, and the points we seek to count are not directly parametrized by the space given by Bhargava. In this talk we present a way around this unfortunate state of affair. This is ongoing joint work with Piper H. (Received January 25, 2022)