Joint NW/UIC/UofC algebra and geometry online seminar

From rings of countable Cohen-Macaulay type to the infinite Grassmannian

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Abstract: By a result of Buchweitz-Greuel-Schreyer, a hypersurface is of countable Cohen-Macaulay representation type if and only if it is isomorphic to a singularity of type $A_\infty$ or $D_\infty$. In this talk, we show how the category $\text{CM}(R)$ of maximal Cohen-Macaulay modules over the coordinate ring $R$ for the $A_\infty$-curve gives a categorical model for arcs in an “$\infty$-gon”. This allows us to construct triangulations of the $\infty$-gon, making use of a limit construction of Jensen-King-Su’s Grassmannian cluster categories. This is joint work with J. August, M. Cheung, S. Gratz, and S. Schroll.

For more information on the online seminar, please see https://rankeya.people.uic.edu/online_seminar.html

Wednesday, July 1 at 3:00 PM in Zoom