

1104-16-333

Jason P Bell* (jpbell@uwaterloo.ca), Department of Pure Mathematics, University of Waterloo, Waterloo, ON N2L3G1, Canada, and **Colin Ingalls** and **Ritvik Ramkumar**. *Rings of differential operators on curves*. Preliminary report.

One of the interesting problems related to Artin's proposed birational classification of noncommutative surfaces is when D_1 embeds in D_2 for two division rings from his list. We consider division rings formed by taking quotients of rings of differential operators on curves and we show that if X and Y are two curves with the property that the quotient division ring of the ring of differential operators on X embeds in the corresponding division ring for Y then the genus of X is less than or equal to the genus of Y . (Received September 03, 2014)