

## PARTIAL SKEW POLYNOMIAL RINGS

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Partial skew group rings have been recently defined by M. Dokuchaev and R. Exel. They proved that under some assumptions this is an associative ring. In particular this happens if the partial action of a group  $G$  on a ring  $R$  has an enveloping action.

In this lecture we will define partial skew polynomial rings and study prime and maximal ideals in partial skew polynomial rings, under the assumption that the partial action of an infinite cyclic group on a ring has enveloping action.

The results of this lecture are contained in a joint work with Wagner Cortes.