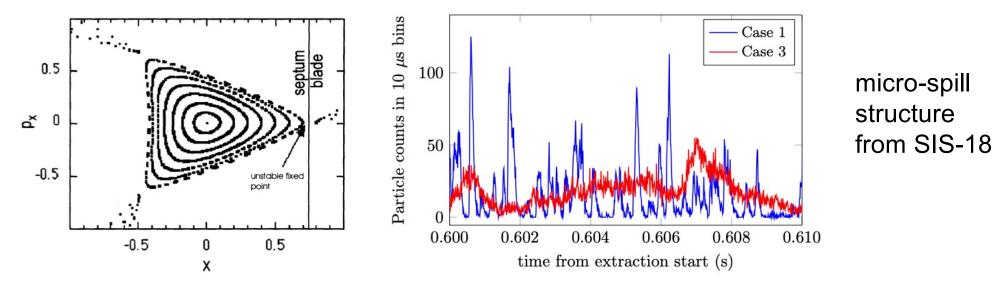
## Measurement and optimization of the spill structure from slow extraction



## GSI SIS-18: Significant data quality loss because of micro-spill structure.



CBM@SIS-100: 'smoothed' spill structure required

## **Measurement of the spill structure:**

Development of a dedicated diamond detector with a count rate of 10<sup>8</sup>/s (ns timing).

## Smoothing the spill structure:

Simulation studies of tune modulation<sup>1</sup>, high-frequency cavities and other measures

[1] R. Singh, P. Forck, S. Sorge, Phys. Rev. Applied (2020)

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