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Calculation of the Machine Availability for the Complex Parallel Operation

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A new concept for the calculation of the individual machine availability is introduced and will be applied for the next beamtime at GSI in 2018.

The calculation of the machine availability has never been done at GSI so far. The whole accounting was experiments-oriented. Hence, for the general statistics per beam-time, times were scaled with the number of concerned parallel experiments.

The machine availability calculation will have the following philosophy:

- The machine works in 2 regimes: serving the local experiments or serving further machines (working as part of the production chain);
- The availability calculation will be done separately for those regimes: Alocal, Achain
- Example: the availability of the PANDA production chain then would be:

$A_{chain_pLinac} A_{chain_SIS18} A_{chain_HEBT} A_{chain_SIS100} A_{chain_pbar} * A_{chain_CR}$

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