

Summary of the Ar Ion SU in the SPS of WK 48 from the RF point of view:

Thursday 2014-11-27

The aim for Thursday was to get the transverse machine parameters optimised up to transition and then to try to accelerate the beam to flat top. After the radial position measurement of the recaptured beam had been improved, also the beam intensity just before transition had been increased. By about noon, the beam went without major problems through transition and to the flat top. Then the transverse machine parameters were optimised and the state of the low level was consolidated during the afternoon. With the completely debunched and subsequently recaptured beam the closed orbit at flat top could not be adjusted as required for setting-up the slow extraction.

Friday 2014-11-28

The programme for Friday was to see whether with a sufficiently short debunching time the modulation index of the azimuthal beam distribution could be made large enough to allow the closed orbit measurement system to work at flat top. This set-up was prepared during the morning. During the afternoon it was validated. The final result was that with this "short debunching" set-up the orbit could be measured as required for setting-up the slow extraction.