



# Topics and major milestones for 2019

## Aggregation of

- Priority list from first meeting of beam dynamics working group ([link](#))
- Follow-up from LHC Injectors Upgrade Workshop ([link](#))

## Extraction of commitments for LIU-PS beam dynamics working group:

Due date	Topic	Responsible
Jun-19	Performance predictions for LS2 RF upgrades	BE-RF
Jun-19	Longitudinal impedance source identification	BE-RF
Sep-19	Define energy at intermediate plateau for LHC beams	BE-RF
Dec-19	2 GeV injection Space charge simulations to validate tune spread scaling	BE-ABP, TE-ABT
Dec-19	PS microwave instability (ions)	BE-RF, BE-ABP
Dec-19	Longitudinal instability simulations / benchmarking	BE-RF
Dec-19	Investigate horizontal blow-up with large longitudinal emittance	BE-ABP, TE-ABT
Dec-19	Flat top horizontal instabilities (e-cloud)	BE-ABP, BE-RF
Jun-20	Review longitudinal parameters at PS-SPS transfer (coordination)	BE-RF
Jun-20	Longitudinal instabilities with small longitudinal emittance (PS-SPS transfer)	BE-RF