

BEAM and ACCELERATOR MODES combination allowing RF synchronization

		ACCELERATOR MODE													
		Shutdown	Cooldown*	Machine Checkout*	Access*	Machine Test*	Calibration*	Warm Up*	Recovery*	Beam Setup	Proton Physics	Ion Physics	Totem Physics	Machine Development	Sector Dependent
BEAM MODE	No Beam	X	X	X	X	X	X	X	X						
	Setup**									X	X	X	X	X	
	Abort									X	X	X	X	X	
	Injection Probe Beam									X	X	X	X	X	
	Injection Setup Beam									X	X		X	X	
	Injection Physics Beam									X	X	X	X	X	
	Prepare Ramp									X	X	X	X	X	
	Ramp									X	X	X	X	X	
	Flat Top									X	X	X	X	X	
	Squeeze									X	X	X	X	X	
	Adjust									X	X	X	X	X	
	Stable Beams									X	X	X	X		
	Unstable Beams									X	X	X	X		
	Beam Dump Warning									X	X	X	X	X	
	Beam Dump									X	X	X	X	X	
	Ramp Down									X	X	X	X	X	
	Cycling									X	X	X	X	X	
	Recovery									X	X	X	X	X	
	Inject & Dump									X				X	
	Circulate & Dump									X				X	

Mode WITHOUT RF synchro

RF Synchro ALLOWED

** During SETUP, the IMMINENT FLAG is an **indication** that an INJECTION mode (and thus a period with a guaranteed RF) will start after minimum 3mn, provided that the HANDSHAKE concludes with a READY state.

BEAM MODES allowing RF synchronization*

*In Accelerator modes : BEAM SETUP, PROTON PHYSICS, ION PHYSICS, TOTEM PHYSICS, MD

