

Last update of schedule dates: 24-09-02

List of Milestones and Schedule Dates for the LHCb Calorimeters

Detector (mechanics and optics)			
SPD/PS	TDR	milestone	schedule
end of optimization of engineering design (EDR)	07-2001	03-2002	achieved
start of serial production	07-2001	06-2003	03-2003
10% of modules production	07-2002	11-2003	08-2003
50% of modules production	07-2003	06-2004	03-2004
100% of modules production	07-2004	05-2005	02-2005
end of supermodule assembly	12-2004	10-2005	07-2005
end of installation	03-2005	01-2006	09-2005
ECAL	TDR	milestone	schedule
end of optimization of engineering design (EDR)	05-2001	03-2001	achieved
start of serial production	06-2001	01-2001	achieved
10% of stack assembly	12-2001	03-2002	achieved
50% of stack assembly	07-2003	07-2003	11-2002
100% of stack assembly	08-2004	08-2004	08-2003
end of module assembly (wall)	11-2004	09-2005	???
end of installation (frame)	02-2005	01-2006	09-2005
HCAL	TDR	milestone	schedule
end of optimization of engineering design (EDR)	06-2001	03-2001	achieved
start of serial production	10-2001	05-2002	achieved
10% of mechanics assembly	07-2002	02-2003	11-2002
50% of mechanics assembly	07-2003	03-2004	07-2003
100% of mechanics assembly	05-2004	06-2005	07-2004
end of optics assembly	06-2004	09-2005	???
end of installation	12-2004	01-2006	09-2005

Electronics (chips and cards)			
SPD	TDR	milestone	schedule
end of optimization of engineering design (EDR)	12-2002	04-2001	achieved
readiness for production of ASIC (PRR)		03-2004	12-2003
end of serial production of ASIC	12-2003	10-2004	07-2004
readiness for production of cards (PRR)		10-2004	07-2004
10% of cards production		02-2005	10-2004
50% of cards production		09-2005	06-2005
end of acceptance tests	09-2004	03-2006	12-2005
end of installation and commissioning	04-2005	09-2006	04-2006
PS	TDR	milestone	schedule
end of optimization of engineering design (EDR)	12-2002	04-2001	achieved
readiness for production of chips (PRR)		12-2001	achieved
start of serial production of chips	07-2002	09-2004	06-2004
readiness for production of cards (PRR)		07-2004	04-2004
10% of cards production	12-2003	04-2005	01-2005
50% of cards production	07-2004	08-2005	05-2005
end of acceptance tests	11-2004	03-2006	11-2006
end of installation and commissioning	04-2005	09-2006	05-2006
ECAL/HCAL	TDR	milestone	schedule
end of optimization of engineering design (EDR)	09-2002	04-2001	achieved
readiness for production (PRR) of cards		06-2004	01-2004
start of serial production (of cards)	10-2003	09-2004	05-2004
5% (pre-series) of cards production	11-2003	02-2005	10-2004
50% of cards production	10-2004	07-2005	01-2005
end of acceptance tests	01-2005	03-2006	10-2005
end of installation and commissioning	04-2005	09-2006	04-2006

Overall Integration	post TDR	milestone	schedule
EDR on support, frames, cabling and assembly procedures	01-2003	06-2004	12-2003

General LHCb Milestones:		milestone
latest start of detector installation		07-2005
finish installation and commissioning of sub-detectors		09-2006
start commissioning of >1 sub-system		10-2006
first beam		04-2007