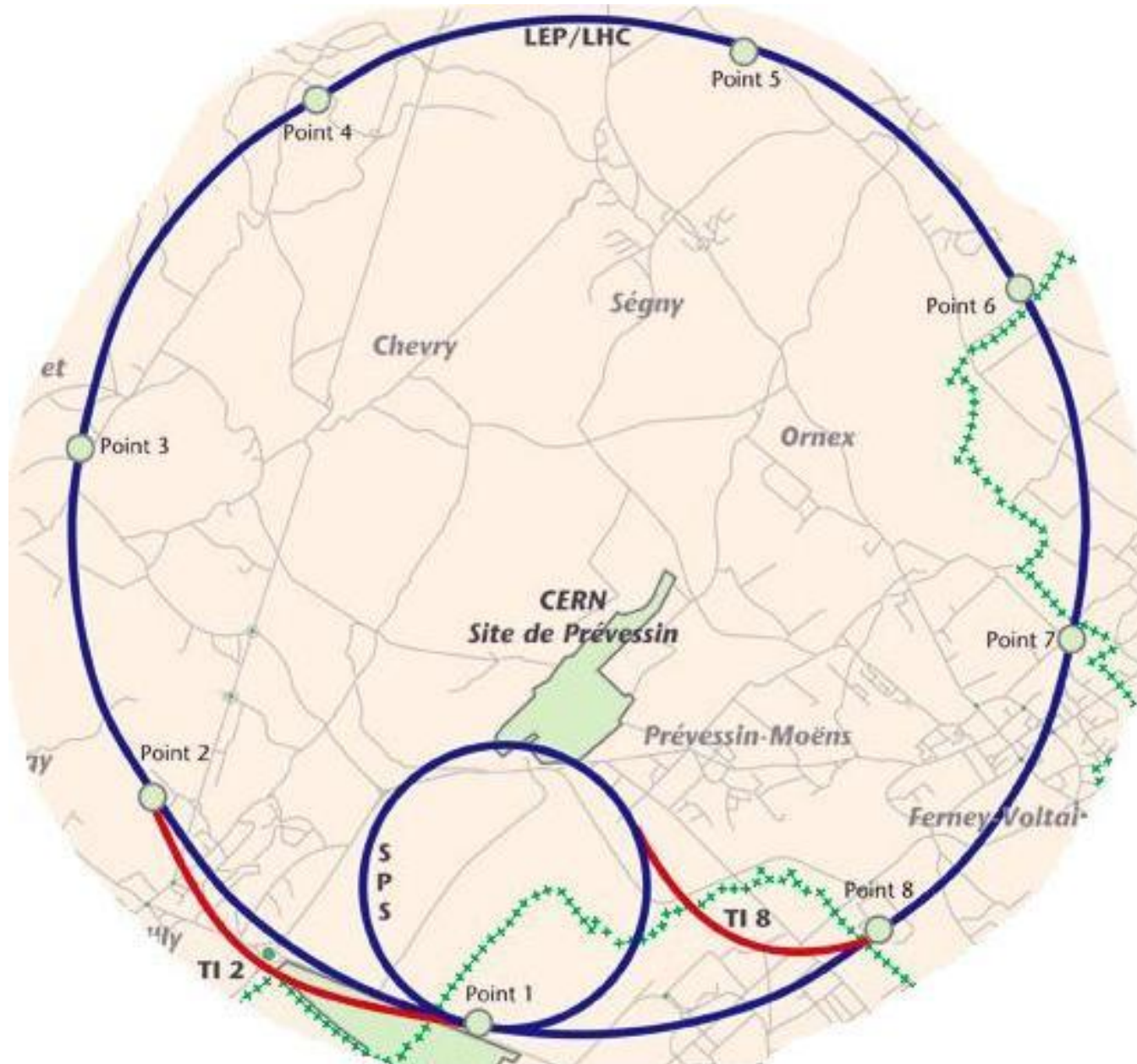


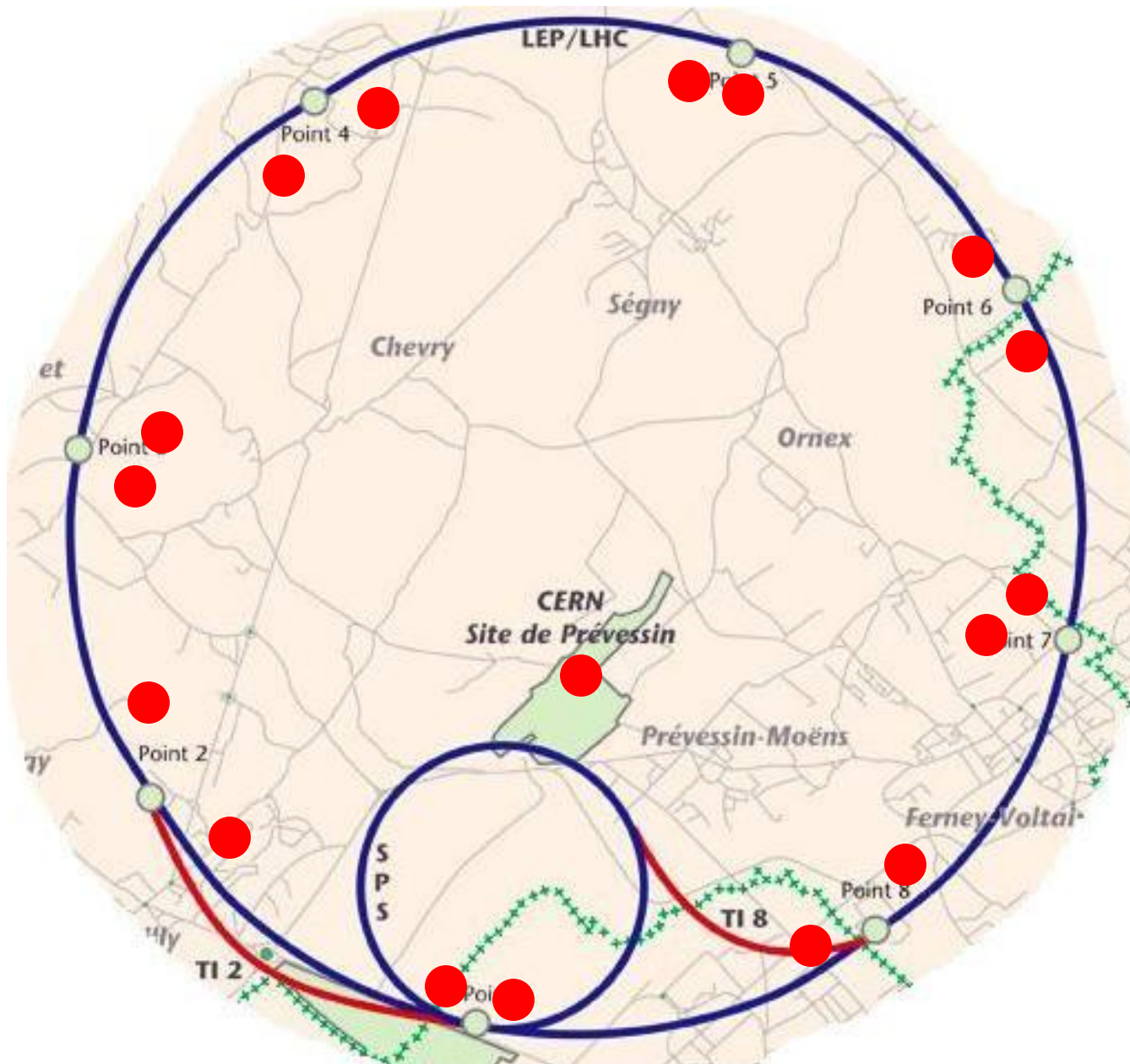


LHC Beam Permit Loop Overview



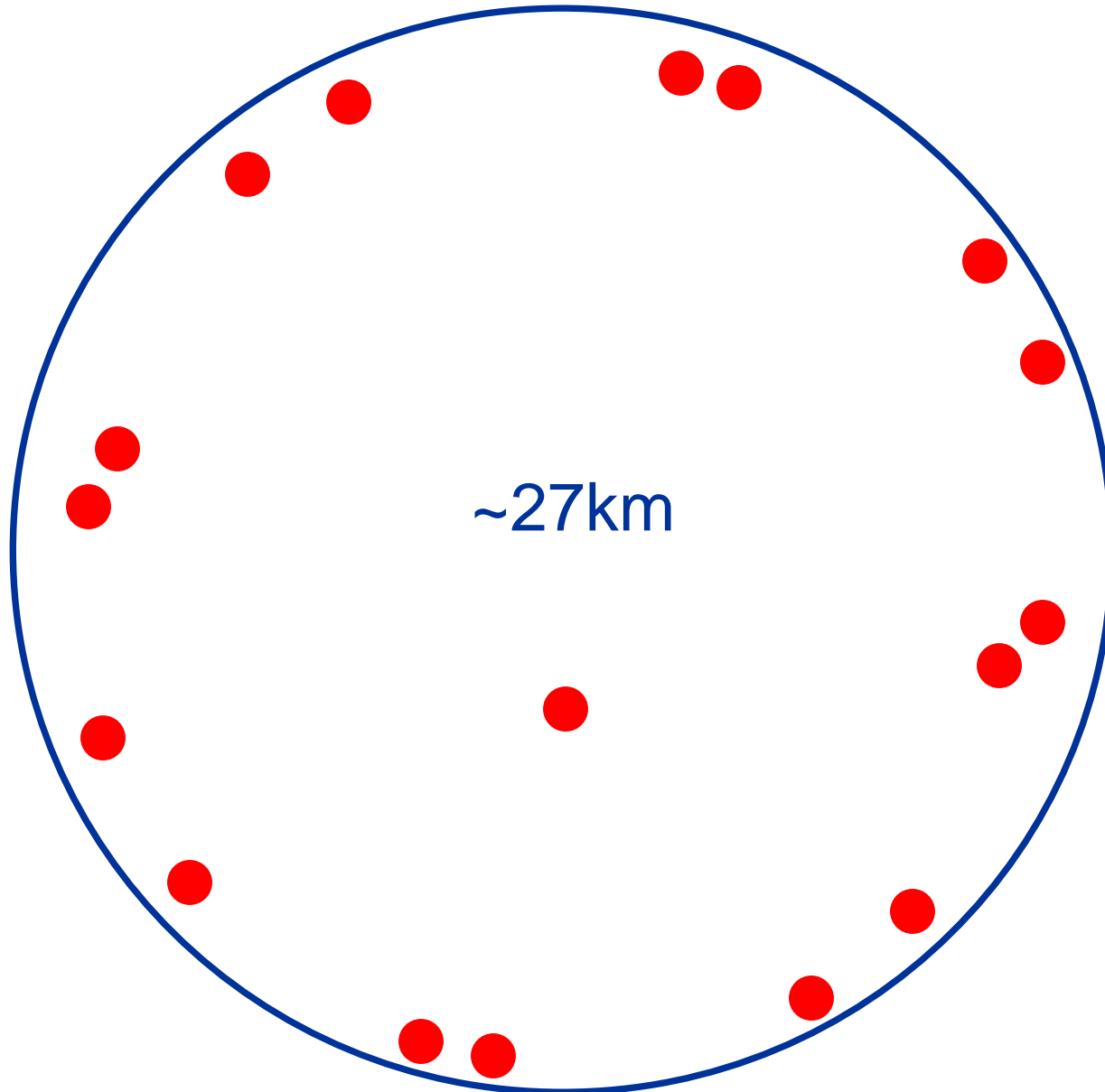
BT/BP/JBS AB/CO/MI May 2008





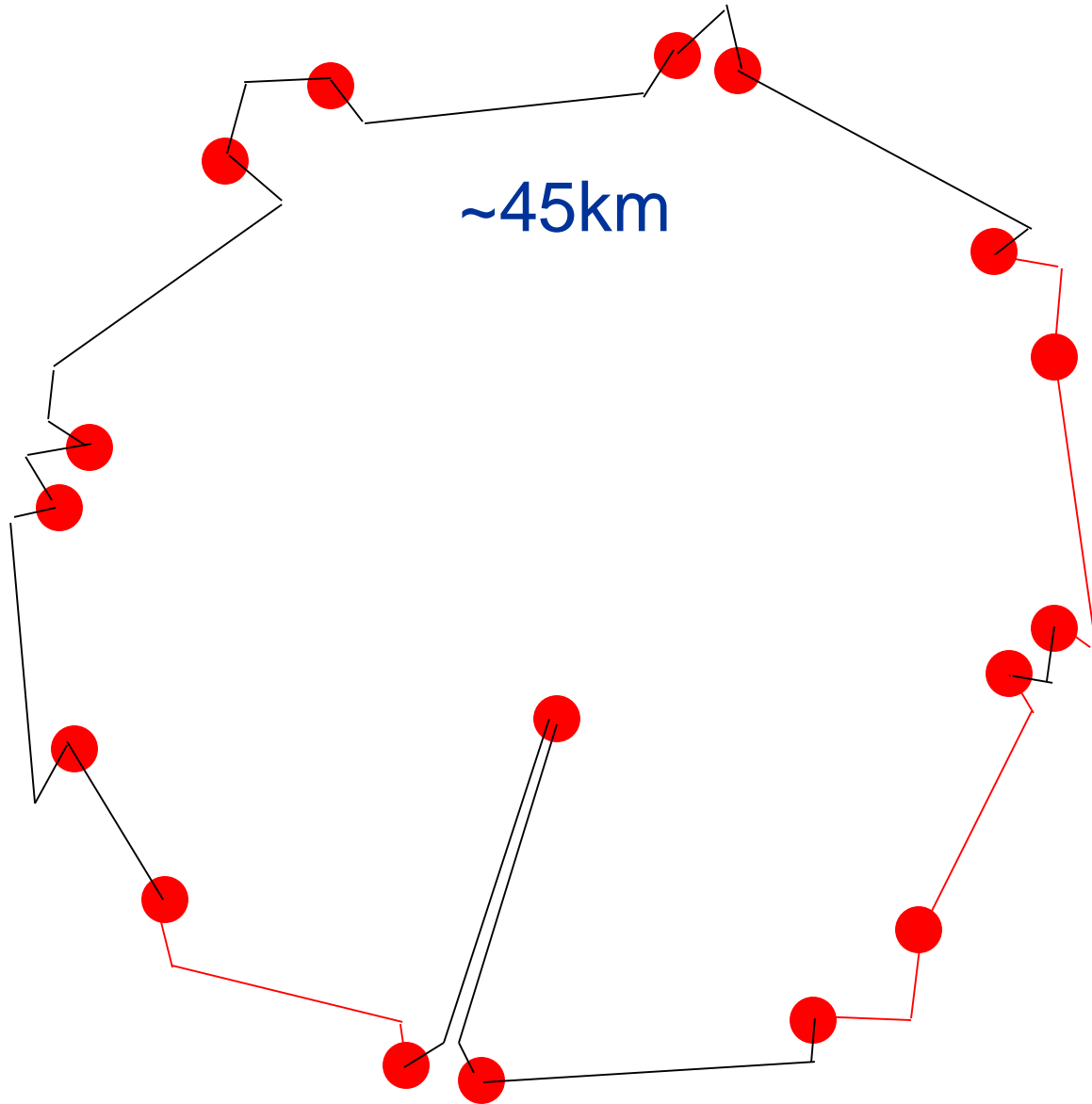


Beam Permit Loop Route





Beam Permit Loop Route





Beam Permit Loop Route



~45km

IR6 around LHC = 190us

CCR to IR6 = 95us

Link through CCR adds ~30us