IR issues	JLC	NLC	tools	R&D other choices
Pair monitor	double discs at 1m from IP	??? Very big SR background! How does SR background fluctuate event by event inside masks at SLD ?	ABEL,CAIN, Guinea-Pig GEANT	pixel device(50x50μm^2) with dE/dX measurement. What's kind of feedback?
Shintake monitor				Laser optics close to IP? σ_x measurement at least
IP-BPM				O(10nm) resolution
Luminosity meas.	acollinearity angle of Bhabha scattering		Toomi's program	How to measure luminosity distribution within a beam energy spread(1%) ? (toponium physics)
Extraction Beam Line: Beamstrahlung monitor				
Extraction Beam Line: Radiative Bhabha meas		There is a chicane in extraction beam line to separate electron beam and photons with a common dump.	ABEL,CAIN, Guinea-Pig SAD GEANT	Design extraction lines and beam diagnostic equipments for small(JLC) and large (NLC) crossing angles.
Extraction Beam Line: Energy measurement				
Extraction Beam Line: Polarization measurement	Hirose's talk at LCWS95 (Appi, Morioka)			
Extraction Beam Line: Beam dump				