Time to achieve Science Objectives

Legend: CE40+CE20+A$^\sharp$ | CE40+2A$^\sharp$ | A$^\sharp$ (HLA)

BHs and NSs Throughout Cosmic Time		
Detect 500 BNS mergers for $z > 5$		Unachievable
Detect 500 BBH mergers for $z > 10$ ($\delta m_1/m_1 < 20\%$)		Unachievable

MMA and Dynamics of Dense Matter		
Locate 100 BNS mergers within $\Delta\Omega_{90} < 1\mathrm{deg}^2$		
Constrain Nuclear Equation of State (NS radius < 10 m)		50 years
Mapping 500 GRBs to progenitors ($z > 2$; $\Delta\Omega < 100\mathrm{deg}^2$)		Unachievable
Detect 10 BNS mergers 300s before merger ($\Delta\Omega_{90} < 10\mathrm{deg}^2$)		>100

New Probes of Extreme Astrophysics		
Detect source with postmerger SNR > 5		40 years
Detect 50 millisecond pulsars		

Fundamental Physics and Precision Measurement of H_0		
Measure H_0 to within 0.2%		3600 years
Detect 10 BBH mergers with SNR > 1000		1000 years

Early Universe		
Measure Stochastic Background for $\Omega_{gw} < 1.3\mathrm{e}{-11}$		240 years

Time [Years]

1   10   20   1   10   20