

$$T_{GW}-t_n < T_N < T_{GW}+t_f(z)$$

$$LLH = \min_t (\sum_{i=1}^{i=NEvents} \{ \sum_j^{j=NBins} [x_j \ln \lambda_j - \lambda_j] + \frac{(t-\overline{t})^2}{2\sigma_t^2} + \frac{(E-\overline{E})^2}{2\sigma_E^2} \})$$