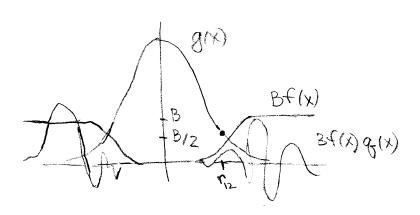
IC: superposition of collapse and random field



$$g(x) = A e^{-\left(\frac{x}{r_0}\right)^2}$$

$$f(x) = 1 - e^{-\left(\frac{x}{r_0}\right)^6}$$

$$q(x) = q(x) + i q_2(x)$$

$$random noise$$

$$|q(x)| \sim |q_2(x)| \sim \frac{\sqrt{2}}{2}$$

Collapse parameters, A and ro, are given
Magnitude of noise, B, is given Bx<141> $\approx \frac{1}{1}$

Width of the Wale Ro

(1) Find the location
$$\Gamma_{12}$$
 where $g(x) = \frac{1}{2}B$;
$$A \exp\{-\left(\frac{\Gamma_{12}}{\Gamma_{0}}\right)^{2}\} = \frac{E}{2}$$

$$= 2 \left[\Gamma_{12} = \Gamma_{0}\left(\ln\frac{2A}{B}\right)^{\frac{1}{2}}\right]$$

(2) Consider constant noise function
$$q = \frac{\sqrt{2}}{2} + i\frac{\sqrt{2}}{2}$$
 and select $f(x)$ such that

$$|g(x) + Bf(x)q| = B$$
 at $X = V_{12}$
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(3) Find Ro. Such that
$$f(x)$$
 passes through (r_{12}, r_{12})

$$1 - exp \{-(r_{12}/Ro)^6\} = f_{12}$$

$$Ro = r_{12} (-ln(1-f_{12}))^{-1/6}$$