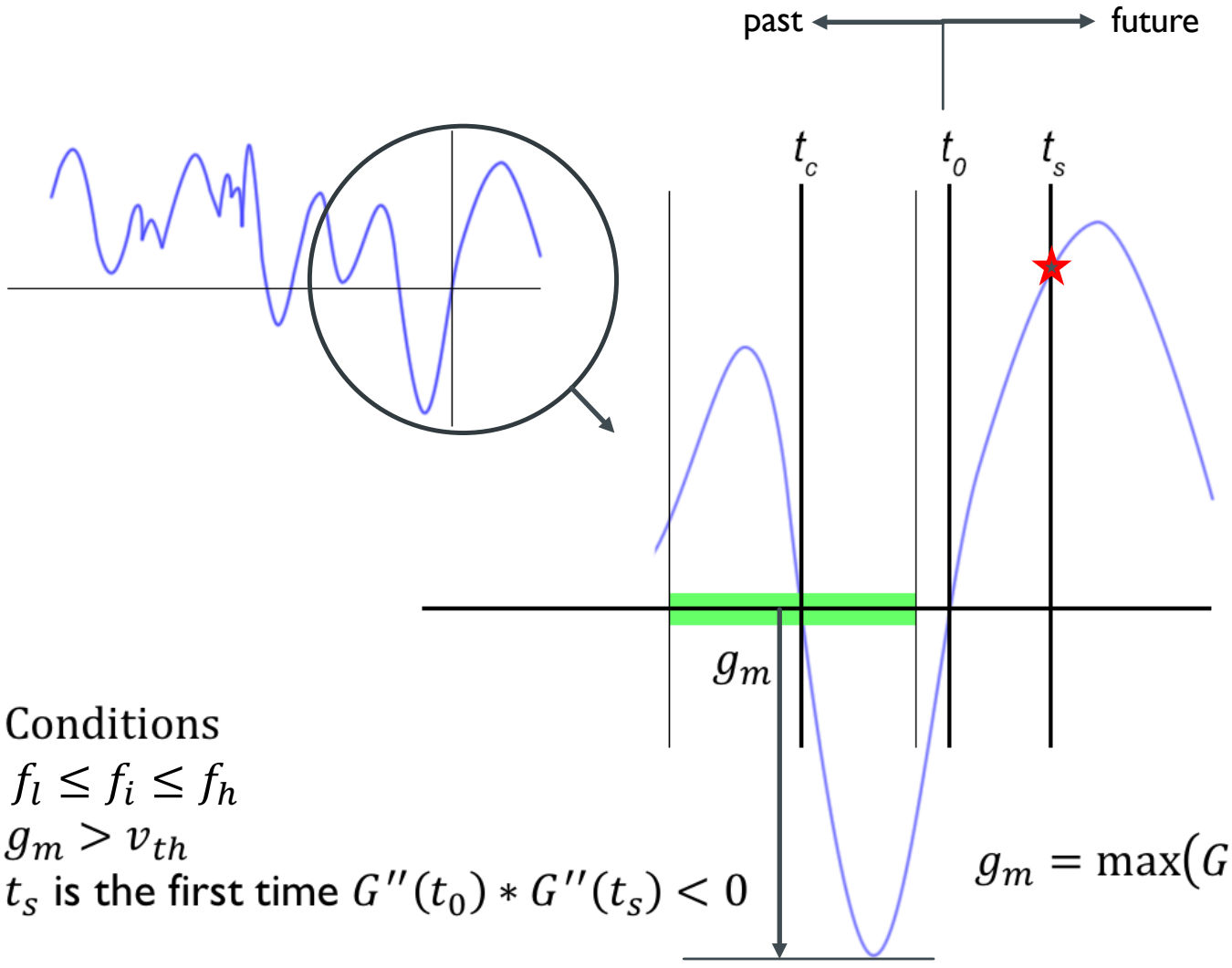


$G(t)$: EEG waveform
$f_l$: lower cut-off
$f_h$: higher cut-off
$t_0$: current time
$t_c$: last time $G(t_0) = G(t_c)$

$$f_i = \frac{1}{2(t_0 - t_c)}$$

Conditions

$f_l \leq f_i \leq f_h$

$g_m > v_{th}$

$t_s$ is the first time $G''(t_0) * G''(t_s) < 0$

$$g_m = \max\big(G(t_0) - G(t)\big), t_c \leq t \leq t_0$$