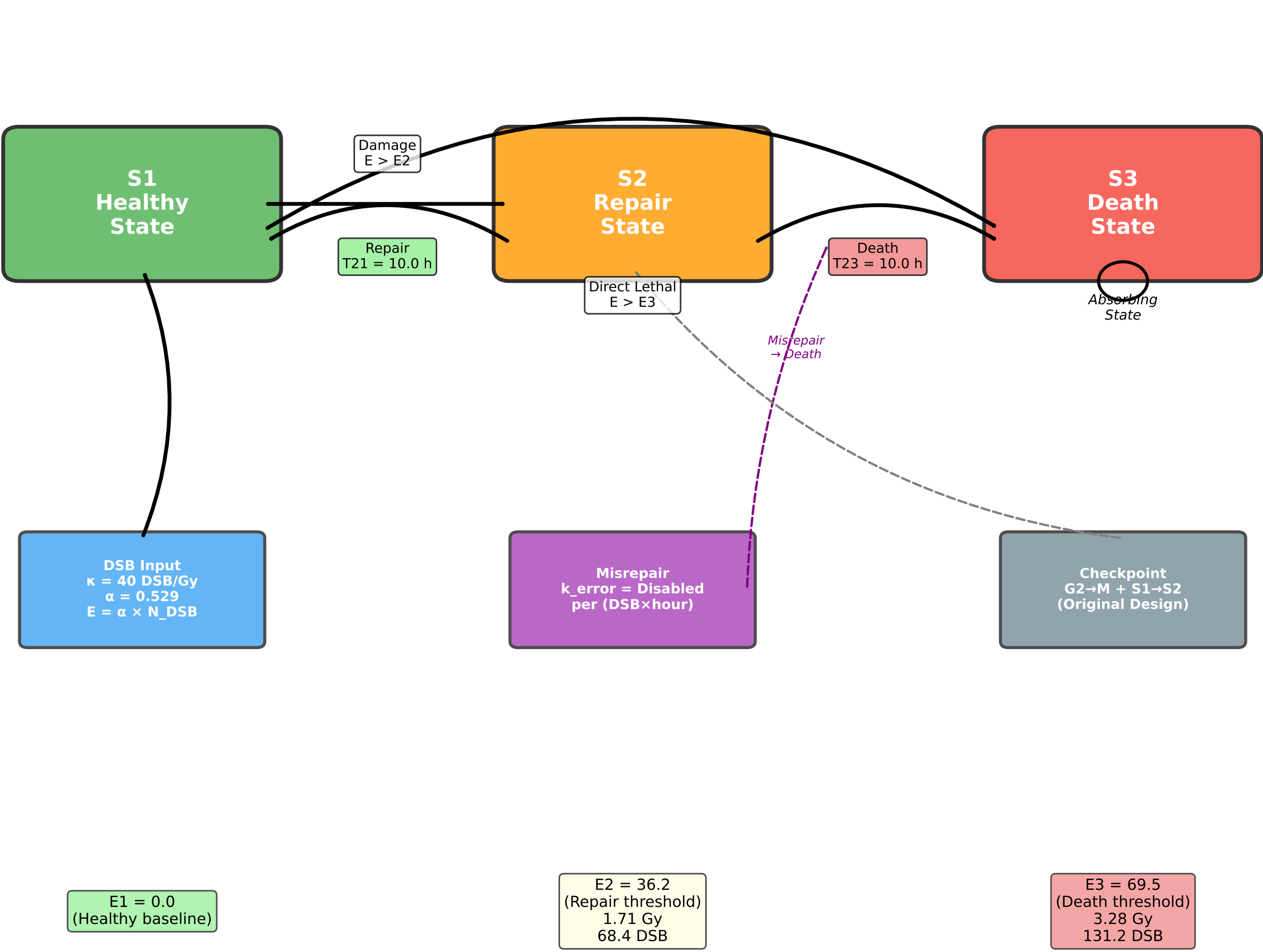


Repair Mediated Model With Misrepair



Transition Probabilities:

$$P(S1 \rightarrow S2) = 2\Phi(-|E - E2|/2\sigma)$$

$$P(S1 \rightarrow S3) = 2\Phi(-|E - E3|/2\sigma)$$

$$P(S2 \rightarrow S1) = 2\Phi(-|E - E1|/2\sigma)$$

$$P(S2 \rightarrow S3) = 2\Phi(-|E - E3|/2\sigma)$$

Timescales:

$$T21 = 10.0 \text{ h (repair)}$$

$$T23 = 10.0 \text{ h (death)}$$

$$\sigma = 10.0$$

LQ Model: $\alpha=0.75 \text{ Gy}^{-1}$, $\beta=0.11 \text{ Gy}^{-2}$