Energy release rate  $G_{(\cdot \cdot)}$  as a function of debond angular semi-aperture  $\Delta \theta$  $\begin{array}{c}
\bullet G_I \\
\bullet G_{II} \\
\bullet G_{TOT}
\end{array}$ 0.70.65 0.60.55 0.50.450.4 $G_{(\cdot \cdot)}\left[rac{J}{m^2}
ight]$ 0.35 0.3 0.25 0.2 0.15 0.1  $5\cdot 10^{-2}$  $-180 - 170 - 160 - 150 - 140 - 130 - 120 - 110 - 100 - 90 - 80 - 70 - 60 - 50 - 40 - 30 - 20 - 10 \quad 0 \quad 10 \quad 20 \quad 30 \quad 40 \quad 50 \quad 60 \quad 70 \quad 80 \quad 90 \quad 100 \quad 110 \quad 120 \quad 130 \quad 140 \quad 150 \quad 160 \quad 170 \quad 180 \quad 100 \quad$ 

 $\Delta\theta\,[^\circ]$