Single-NC line shape, gaussian 50fs 4K 30K 1.0 1.0 Model Utzat 8.0 8.0 0.6 0.6 Abs Abs 0.4 0.4 0.2 0.2 0.0 1 0.0 2100 2050 2050 2100 2150 2200 2150 2200 Energy [meV] Energy [meV] 60K 100K 1.0 1.0 8.0 8.0 0.6 0.6 Abs 0.40.4 0.2 0.2 0.0 + 2000  $0.0 \frac{1}{2000}$ 2100 2050 2100 2150 2050 2200 2150 2200 Energy [meV] Energy [meV] 150K 220K 1.0 1.0 8.0 8.0 0.6 0.6 Abs 0.4 0.4 0.2 0.2 0.0 \( \begin{array}{c} 2000 \end{array} \) 0.0 2050 2050 2000 2100 2200 2150 2100 2150 2200 Energy [meV] Energy [meV] 290K

