## anchor $\frac{\gamma}{k^p + \gamma}$ with p=1.5, $\gamma$ =2.0 10<sup>6</sup> PG-EXTRA 10<sup>4</sup> with APPM with anchor, $\frac{\gamma}{k^p + \gamma}$ $10^{2}$ with Adaptive 10<sup>0</sup> $10^{-2}$ $10^{-4}$ $10^{-6}$ $10^{-8}$ $10^{-10}$ $10^{4}$ 10<sup>0</sup> $10^{1}$ $10^{2}$ 10<sup>3</sup> Iteration count k