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Dielectronic Recombination in  $O^{4+}$  Above and Below the Ionization Threshold S. D. LOCH, M. S. PINDZOLA, Auburn University — Relativistic perturbation theory calculations are carried out for  $O^{4+}$   $1s^22s^2 + e$ -i0  $O^{3+}$   $1s^22p^23l(l=0,1,2)$  dielectronic recombination. We find that 37 of the 57 levels in the  $1s^22p^23l$  configurations lie above the  $O^{4+}$  ionization limit. The largest cross sections are found at 1.7 eV for the  $1s^22p^33d$  configuration.

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