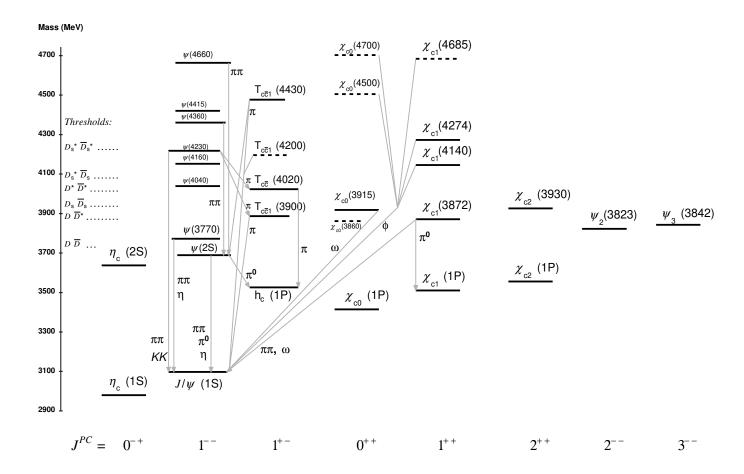
Charmonium System

Updated March 2024.



The level scheme of meson states containing a minimal quark content of $c\bar{c}$ and having S=C=B=0. The name of a state is determined by its quantum numbers I^GJ^{PC} (see the review "Naming Scheme for Hadrons"). States included in the Summary Tables are shown with solid lines; selected states not in the Summary Tables, but with assigned quantum numbers, are shown with dotted lines. The arrows indicate the most dominant hadronic transitions. Single photon transitions, including $\psi(nS) \to \gamma \eta_c(mS)$, $\psi(nS) \to \gamma \chi_{cJ}(1P)$, and $\chi_{cJ}(1P) \to \gamma J/\psi$, are omitted for clarity. For orientation, the location of the thresholds related to a pair of ground state open charm mesons is indicated in the figure. The J^P of $T_{c\bar{c}}(4020)$ is not established. Decays to open flavour final states are not shown in the figure.