Table 1.1: Symbols for mesons with strangeness and heavy-flavor quantum numbers equal to zero.

$J^{PC} =$	$\begin{cases} 0^{-+} \\ 2^{-+} \\ \vdots \end{cases}$	1^{+-} 3^{+-} $\vdots$	1^{--} 2^{--} $\vdots$	0^{++} 1^{++} $\vdots$
minimal $q\bar{q}$ content				
$u\bar{d}, u\bar{u} - d\bar{d}, d\bar{u} \quad (I = 1)$	π	b	ρ	a
$\left.\begin{array}{l} d\bar{d} + u\bar{u} \\ \text{and/or } s\bar{s} \end{array}\right\} \quad (I = 0)$	η, η'	h, h'	ω, ϕ	f, f'
$c\bar{c}$	η_c	h_c	$\psi^\dagger$	χ_c
$b\bar{b}$	η_b	h_b	Υ	χ_b
$I = 1$ with $c\bar{c}$	P_c	Z_c	R_c	A_c
$I = 1$ with $b\bar{b}$	P_b	Z_b	R_b	A_b

†The J/ψ remains the J/ψ.

- $X(3872)$ will appear as '$\chi_{c1}(3872)$ or $X(3872)$';
- $X(3900)^{\pm}$ will appear as '$Z_c(3900)^{\pm}$';
- $X(4260)$ will appear as '$\psi(4260)$ or $Y(4260)$';
- $X(4360)$ will appear as '$\psi(4360)$ or $Y(4360)$';
- $X(4660)$ will appear as '$\psi(4660)$ or $Y(4660)$';