

K₂(1820)

$$I(J^P) = \frac{1}{2}(2^-)$$

See our mini-review in the 2004 edition of this *Review* (PDG 04) under K₂(1770).

K₂(1820) MASS

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
1816 ± 13	¹ ASTON	93	LASS 11K ⁻ p → K ⁻ ωp
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
~ 1840	² DAUM	81C	CNTR 63 K ⁻ p → K ⁻ 2πp
¹ From a partial wave analysis of the K ⁻ ω system.			
² From a partial wave analysis of the K ⁻ 2π system.			

K₂(1820) WIDTH

VALUE (MeV)	DOCUMENT ID	TECN	COMMENT
276 ± 35	³ ASTON	93	LASS 11K ⁻ p → K ⁻ ωp
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●			
~ 230	⁴ DAUM	81C	CNTR 63 K ⁻ p → K ⁻ 2πp
³ From a partial wave analysis of the K ⁻ ω system.			
⁴ From a partial wave analysis of the K ⁻ 2π system.			

K₂(1820) DECAY MODES

Mode	Fraction (Γ _i /Γ)
Γ ₁ Kππ	
Γ ₂ K ₂ [*] (1430)π	seen
Γ ₃ K [*] (892)π	seen
Γ ₄ Kf ₂ (1270)	seen
Γ ₅ Kω	seen

K₂(1820) BRANCHING RATIOS

Γ(K ₂ [*] (1430)π)/Γ(Kππ)	Γ ₂ /Γ ₁
<u>VALUE</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●	
~ 0.77	DAUM 81C CNTR 63K ⁻ p → \bar{K} 2πp

Γ(K [*] (892)π)/Γ(Kππ)	Γ ₃ /Γ ₁
<u>VALUE</u>	<u>DOCUMENT ID</u> <u>TECN</u> <u>COMMENT</u>
● ● ● We do not use the following data for averages, fits, limits, etc. ● ● ●	
~ 0.05	DAUM 81C CNTR 63K ⁻ p → \bar{K} 2πp

