



## 1 Decay Scheme

P-32 decays by beta minus emission to the S-32 fundamental level.

*Le phosphore 32 se désintègre par émission bêta moins vers le niveau fondamental de soufre 32.*

## 2 Nuclear Data

$$T_{1/2}({}^{32}\text{P}) : 14,284 \quad (36) \quad \text{d}$$

$$Q^{-}({}^{32}\text{P}) : 1710,66 \quad (21) \quad \text{keV}$$

### 2.1 $\beta^{-}$ Transitions

	Energy keV	Probability × 100	Nature	lg <i>ft</i>
$\beta_{0,0}^{-}$	1710,66 (21)	100	Allowed	7,9

## 3 Atomic Data

### 3.1 S

$$\omega_K : 0,0642 \quad (16)$$

$$n_{KL} : 1,856 \quad (7)$$

## 4 Electron Emissions

		Energy keV	Electrons per 100 disint.
$\beta_{0,0}^-$	max:	1710,66 (21)	100
$\beta_{0,0}^-$	avg:	695,5 (3)	

## 5 Main Production Modes

{ P – 31(n,γ)P – 32    σ : 0,172 (6) barns  
Possible impurities : None

{ S – 32(n,p)P – 32  
Possible impurities : P – 33, S – 35

{ S – 34(d,α)P – 32  
Possible impurities : None

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