

**Nuclear States from Charged Particle Reactions –  
Tables of Proton and  $\alpha$ -Particle Resonance Parameters. Part 1**

**Introduction** (S.I. SUKHORUCHKIN, Z.N. SOROKO)

- General remarks
- Data collection and presentation
- List of notations
- The astrophysical aspect of resonance parameters
- Data from high-resolution measurements
- Investigations of isobar-analog resonances
- Standards and material testing
- Conclusions
- Acknowledgements

**Tables** (S.I. SUKHORUCHKIN, Z.N. SOROKO)

<b>2-Helium</b>	<b>6-Carbon</b>	<b>9-Fluorine</b>	<b>13-Aluminium</b>
He-5	C-9	F-15	Al-23
	C-10	F-16	Al-24
<b>3-Lithium</b>	C-11	F-17	Al-25
Li-5	C-12	F-18	Al-26
Li-6	C-13	F-19	Al-27
Li-7	C-14		
Li-8	C-15	<b>10-Neon</b>	<b>14-Silicon</b>
Li-9	C-16	Ne-18	Si-25
		Ne-19	Si-26
<b>4-Beryllium</b>	<b>7-Nitrogen</b>	Ne-20	Si-27
Be-6	N-11	Ne-21	Si-28
Be-7	N-12	Ne-22	Si-29
Be-8	N-13		Si-30
Be-9	N-14	<b>11-Sodium</b>	
Be-10	N-15	Na-19	<b>15-Phosphorus</b>
Be-11	N-16	Na-20	P-27
Be-12	N-17	Na-21	P-28
	N-18	Na-22	P-29
<b>5-Boron</b>	N-19	Na-23	P-30
B-8			P-31
B-9	<b>8-Oxygen</b>	<b>12-Magnesium</b>	
B-10	O-13	Mg-22	
B-11	O-14	Mg-23	
B-12	O-15	Mg-24	
B-13	O-16	Mg-25	
B-14	O-17	Mg-26	
	O-18		
	O-19		

## **16-Sulfur**

S-30

S-31

S-32

S-33

S-34

## **17-Chlorine**

Cl-31

Cl-32

Cl-33

Cl-34

Cl-35

Cl-37

## **18-Argon**

Ar-36

Ar-38

Ar-40

**List of references**

$Z = 2 - 18$

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