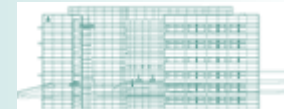


# CARACTERIZACIÓN DE SÓLIDOS

## UNIDADES:

- Microsonda Electrónica
- Espectrometría de Rayos X
- Preparación de Muestras

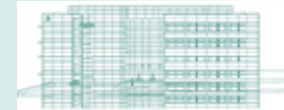


## The periodic table of the elements

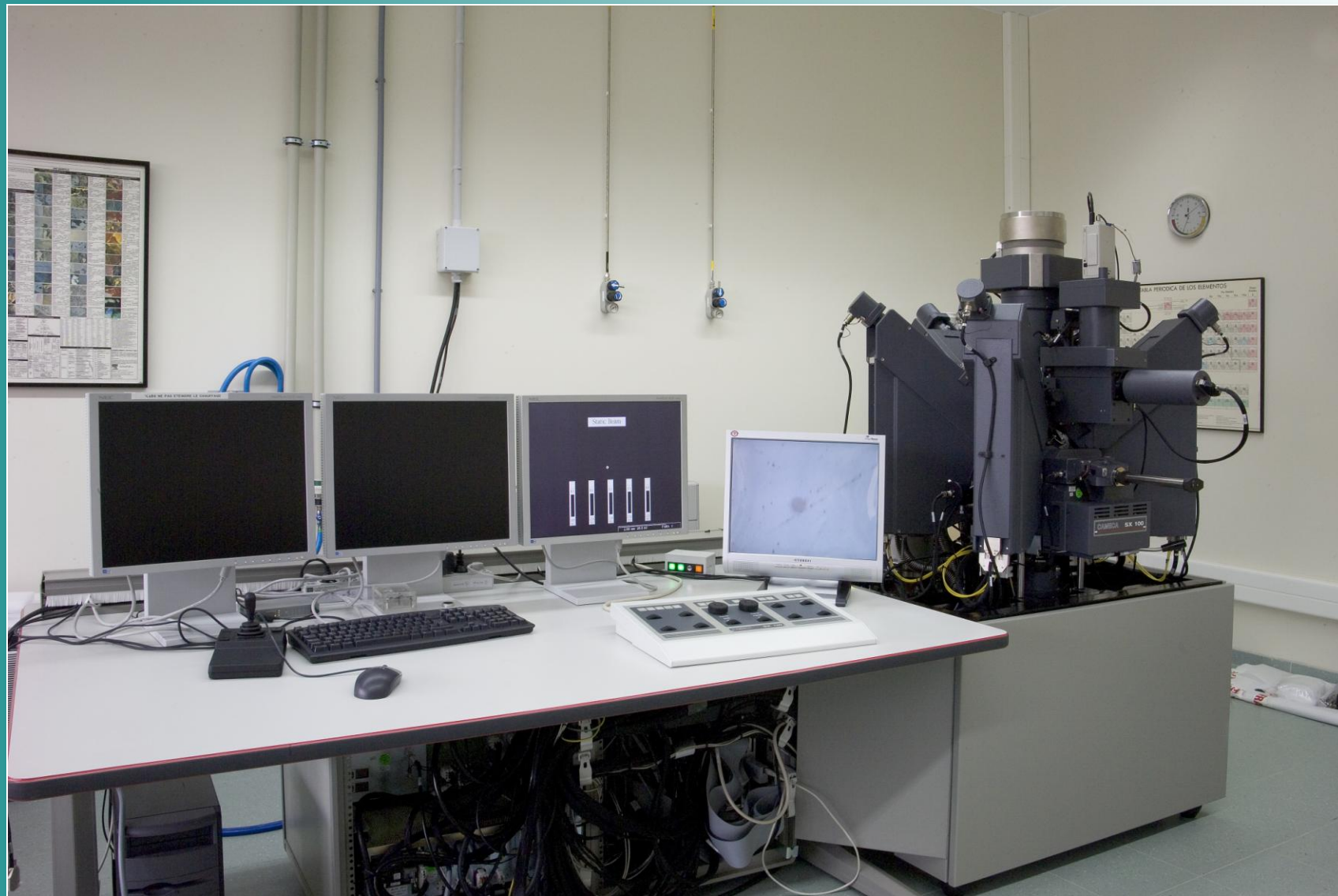
	IA	IIA	IIIB	IVB	VB	VIB	VII B	VIII	IB	IIB	IIIA	IVA	VA	VIA	VIIA	0			
1	1 H 1.008															2 He 4.003	1		
2	3 Li 6.941	4 Be 9.012									5 B 10.81	6 C 12.011	7 N 14.007	8 O 15.999	9 F 18.998	10 Ne 20.180	2		
3	11 Na 22.990	12 Mg 24.31									13 Al 26.98	14 Si 28.09	15 P 30.974	16 S 32.066	17 Cl 35.453	18 Ar 39.948	3		
4	19 K 39.098	20 Ca 40.08	21 Sc 44.96	22 Ti 47.88	23 V 50.94	24 Cr 52.00	25 Mn 54.94	26 Fe 55.85	27 Co 58.93	28 Ni 58.69	29 Cu 63.55	30 Zn 65.39	31 Ga 69.72	32 Ge 72.61	33 As 74.92	34 Se 78.96	35 Br 79.904	36 Kr 83.80	4
5	37 Rb 85.47	38 Sr 87.62	39 Y 88.906	40 Zr 91.22	41 Nb 92.91	42 Mo 95.94	43 Tc (98)	44 Ru 101.1	45 Rh 102.95	46 Pd 106.4	47 Ag 107.87	48 Cd 112.41	49 In 114.82	50 Sn 118.71	51 Sb 121.75	52 Te 127.60	53 I 126.90	54 Xe 131.29	5
6	55 Cs 132.905	56 Ba 137.33	L	72 Hf 178.49	73 Ta 180.95	74 W 183.85	75 Re 186.2	76 Os 190.2	77 Ir 192.2	78 Pt 195.08	79 Au 196.97	80 Hg 200.59	81 Tl 204.38	82 Pb 207.21	83 Bi 208.98	84 Po (209)	85 At (210)	86 Rn (222)	6
7	87 Fr (223)	88 Ra 226.02	A																7
	L	57 La 138.91	58 Ce 140.12	59 Pr 140.91	60 Nd 144.24	61 Pm (145)	62 Sm 150.36	63 Eu 151.97	64 Gd 157.25	65 Tb 158.93	66 Dy 162.50	67 Ho 164.93	68 Er 167.26	69 Tm 168.93	70 Yb 173.04	71 Lu 174.97			
	A	89 Ac (227)	90 Th 232.04	91 Pa 231.04	92 U 238.03	93 Np 237.05	94 Pu (244)	95 Am (243)	96 Cm (247)	97 Bk (247)	98 Cf (251)	99 Es (252)	100 Fm (257)	101 Md (258)	102 No (259)	103 Lr (260)			

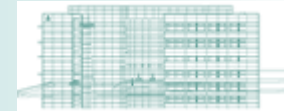
Atomic number → 21  
Element symbol ← Sc  
Atomic weight → 44.96

- Yellow: Difficult to measure with x-rays
- Red: Normally measured using K lines
- Blue: Normally measured using L lines



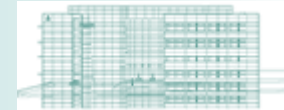
## Microsonda Electrónica

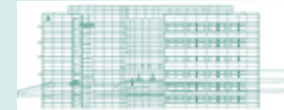




## Detalle de la Columna Electrónica y Espectrómetros

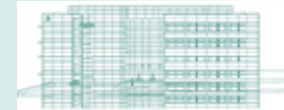


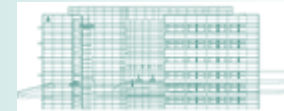




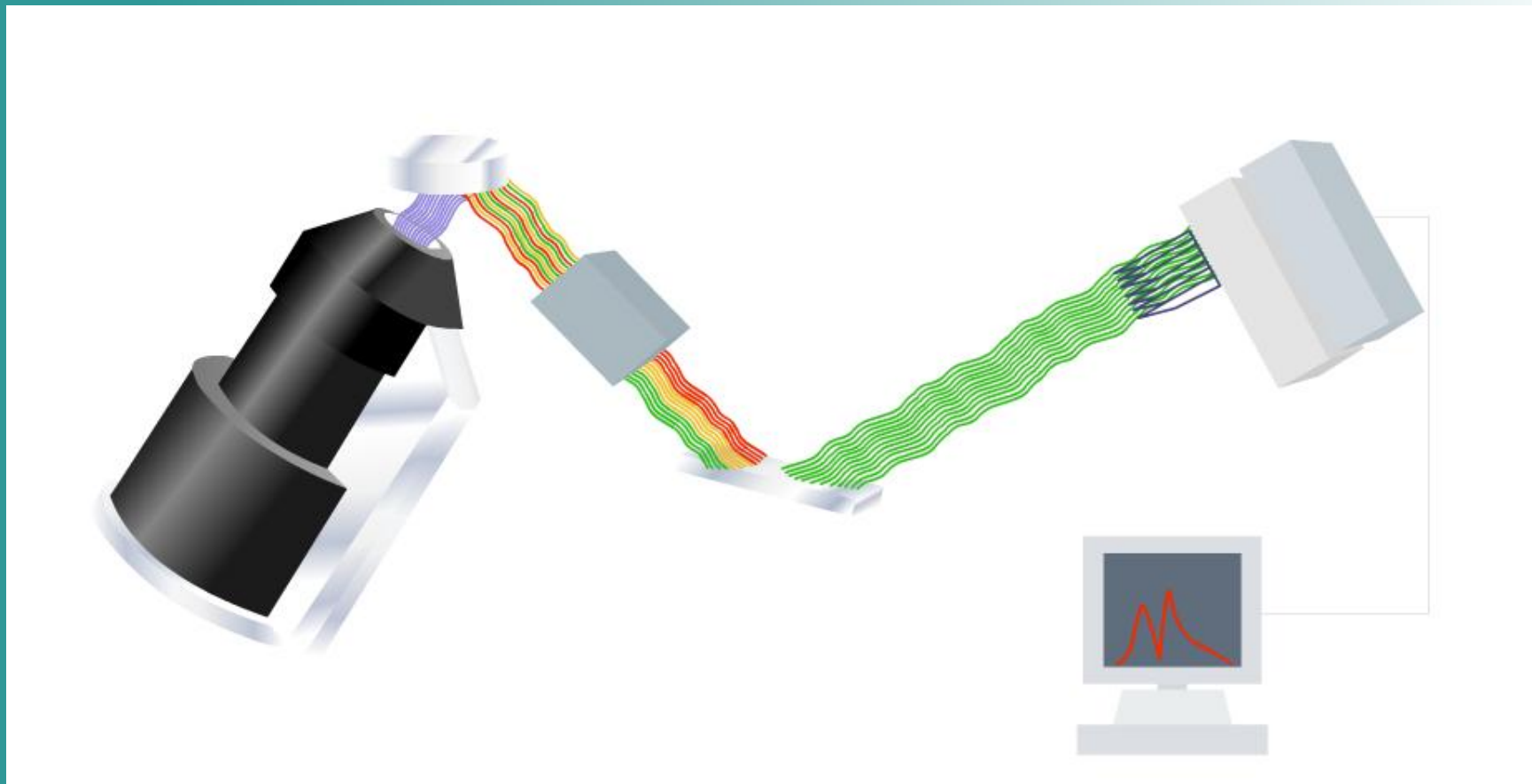
## Espectrómetro de Fluorescencia de Rayos X



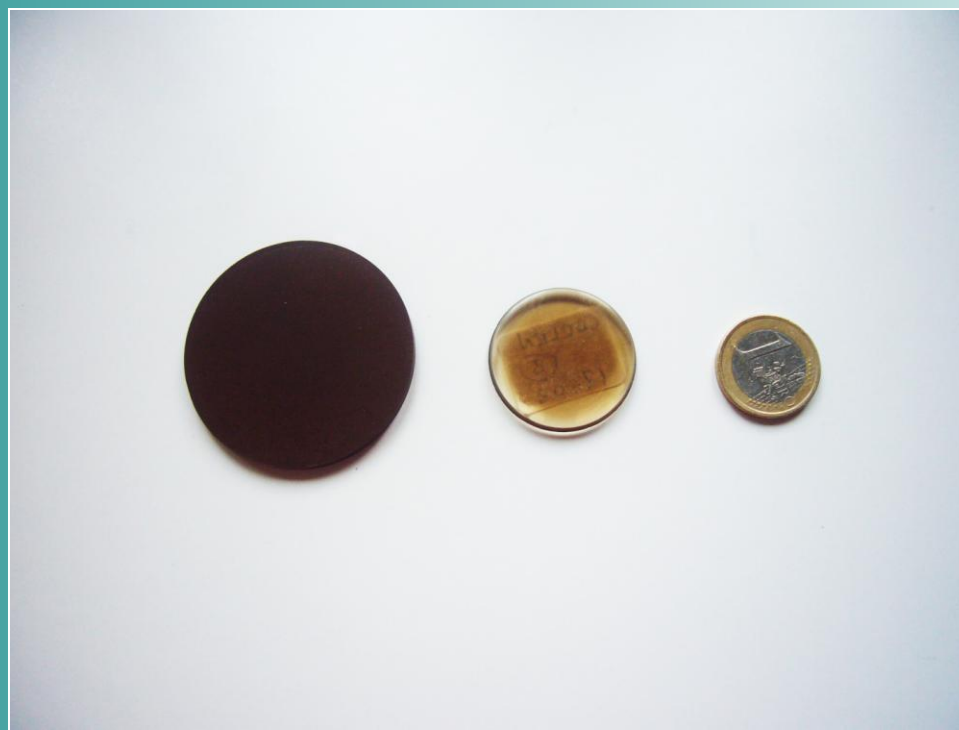
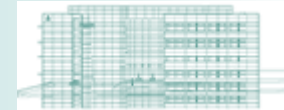


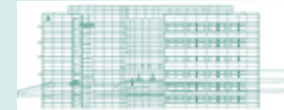


# Esquema del Espectrómetro



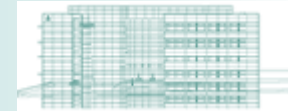






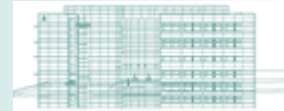
# Difractómetro de Rayos X





# UNIDAD DE PREPARACIÓN DE MUESTRAS

- Corte de Rocas.
- Pulido y desbaste.
- Englobe en Resinas Epoxi.
- Compactación y Prensado de Muestras.



Contacto:

Servicios Científico-Técnicos:

<http://www.sct.uniovi.es/>

Servicio de Microsonda Electrónica.

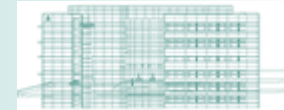
Servicio de Espectrometría de Rayos X.





Universidad de Oviedo  
Vicerrectorado de Investigación

# Servicios Científico-Técnicos





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