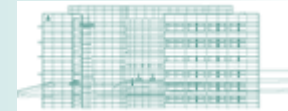


TÉCNICAS de ANÁLISIS

UNIDAD:

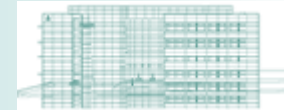
- Fluorescencia de Rayos X
Microsonda Electrónica.

Emilio Ariño Ariño, técnico de la Unidad de Fluorescencia de RX y Microsonda Electrónica



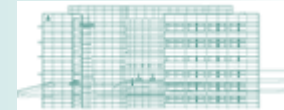
Equipos:

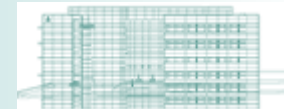
- Espectrómetro de Fluorescencia de Rayos X.
- Microsonda Electrónica.
- Cortadoras, Pulidoras, Desbastadoras, Molinos y Prensas (Preparación de Muestras).



Espectrómetro de Fluorescencia de Rayos X





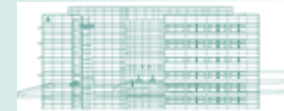


The periodic table of the elements

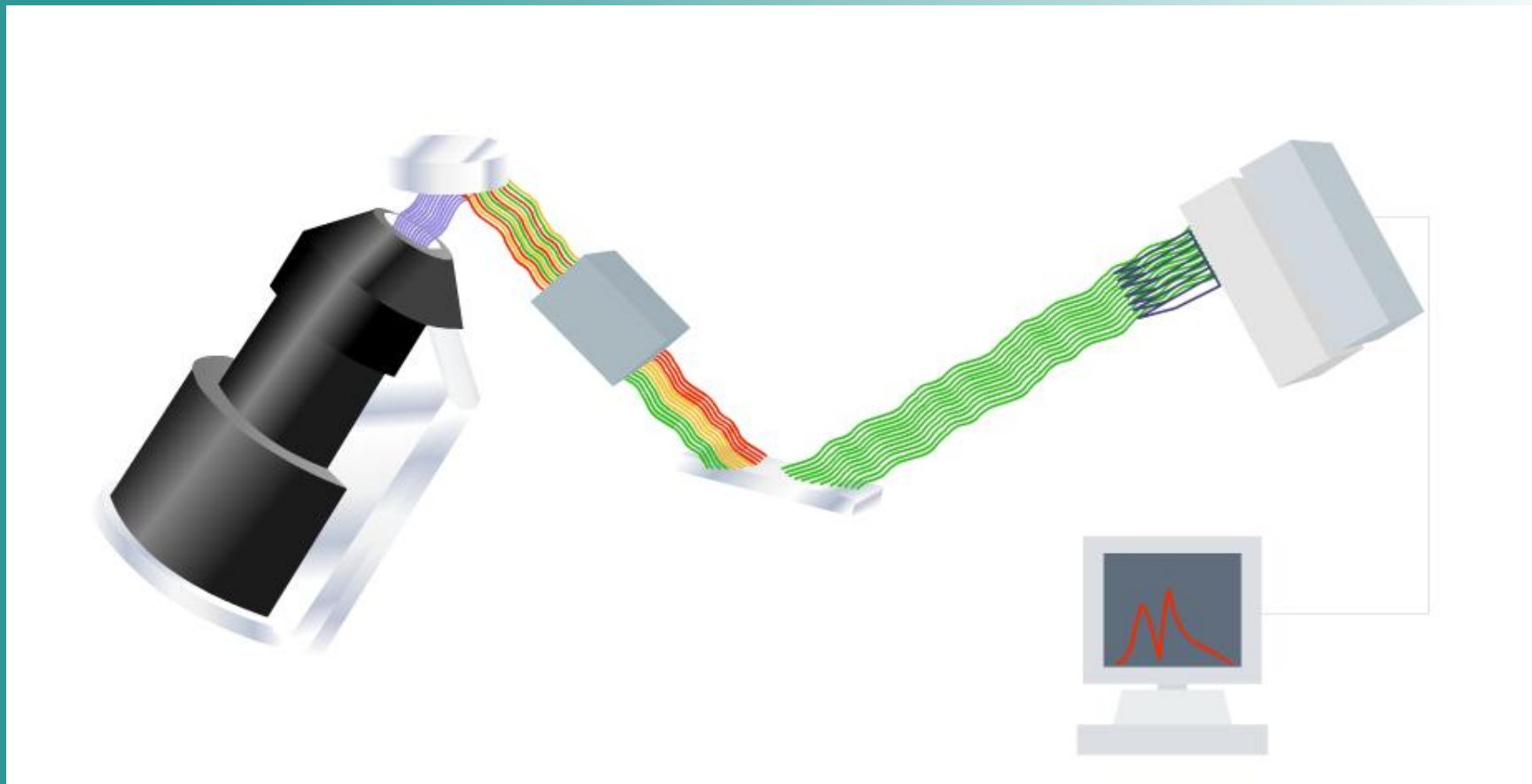
	IA	IIA	IIIB	IVB	VB	VIB	VII B	VIII	IB	IIB	IIIA	IVA	VA	VIA	VIIA	0			
1	1 H 1.008															2 He 4.003	1		
2	3 Li 6.941	4 Be 9.012									5 B 10.81	6 C 12.011	7 N 14.007	8 O 15.999	9 F 18.998	10 Ne 20.180	2		
3	11 Na 22.990	12 Mg 24.31									13 Al 26.98	14 Si 28.09	15 P 30.974	16 S 32.066	17 Cl 35.453	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)			

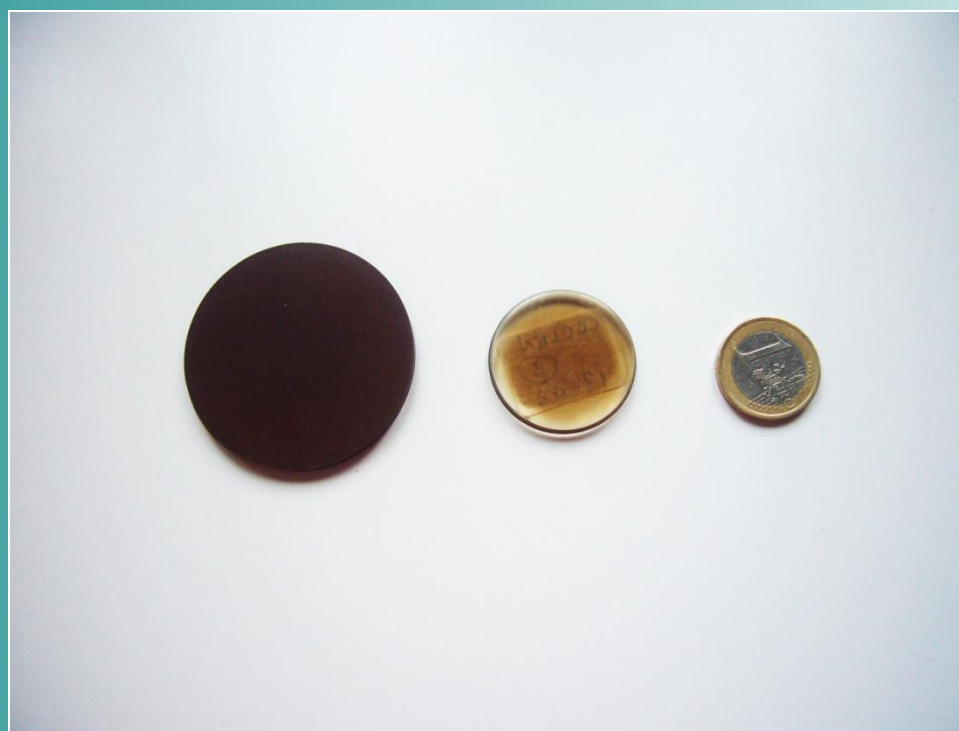
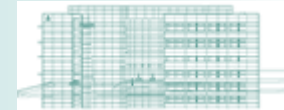
Atomic number → 21 ← Element symbol
Atomic weight → 44.96

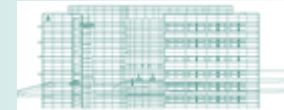
- Yellow: Difficult to measure with x-rays
- Red: Normally measured using K lines
- Blue: Normally measured using L lines



Esquema del Espectrómetro

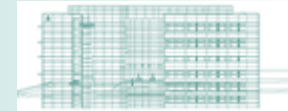






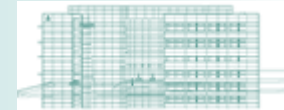
Difractómetro de Rayos X

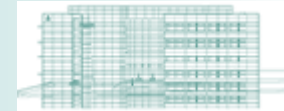




Servicio Preparación de Muestras:

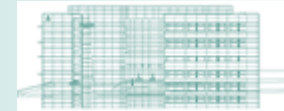
- Englobe en Resinas Epoxi.
- Corte de Rocas.
- Pulido y desbaste.
- Compactación y Prensado de Muestras.





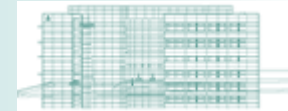
Cortadoras





Disco de Corte





Contacto:

Servicios Científico-Técnicos:

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

TÉCNICAS DE ANÁLISIS:

Unidad Fluorescencia de Rayos X.

Microsonda Electrónica.