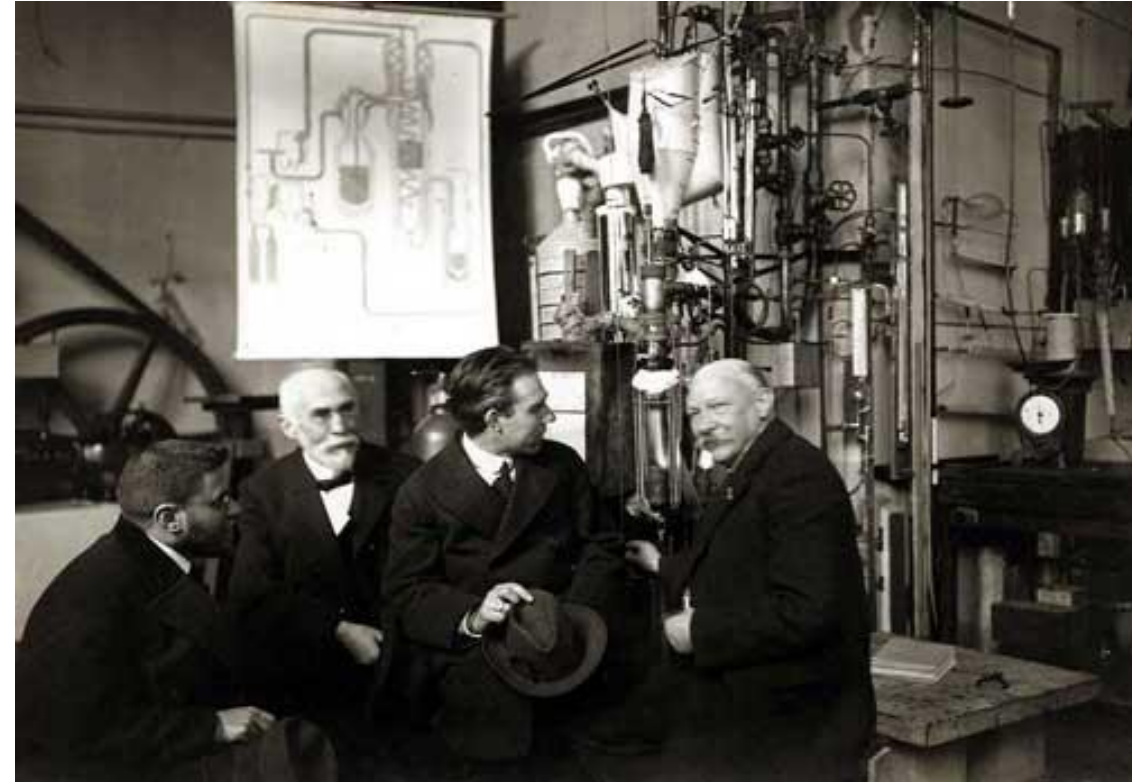
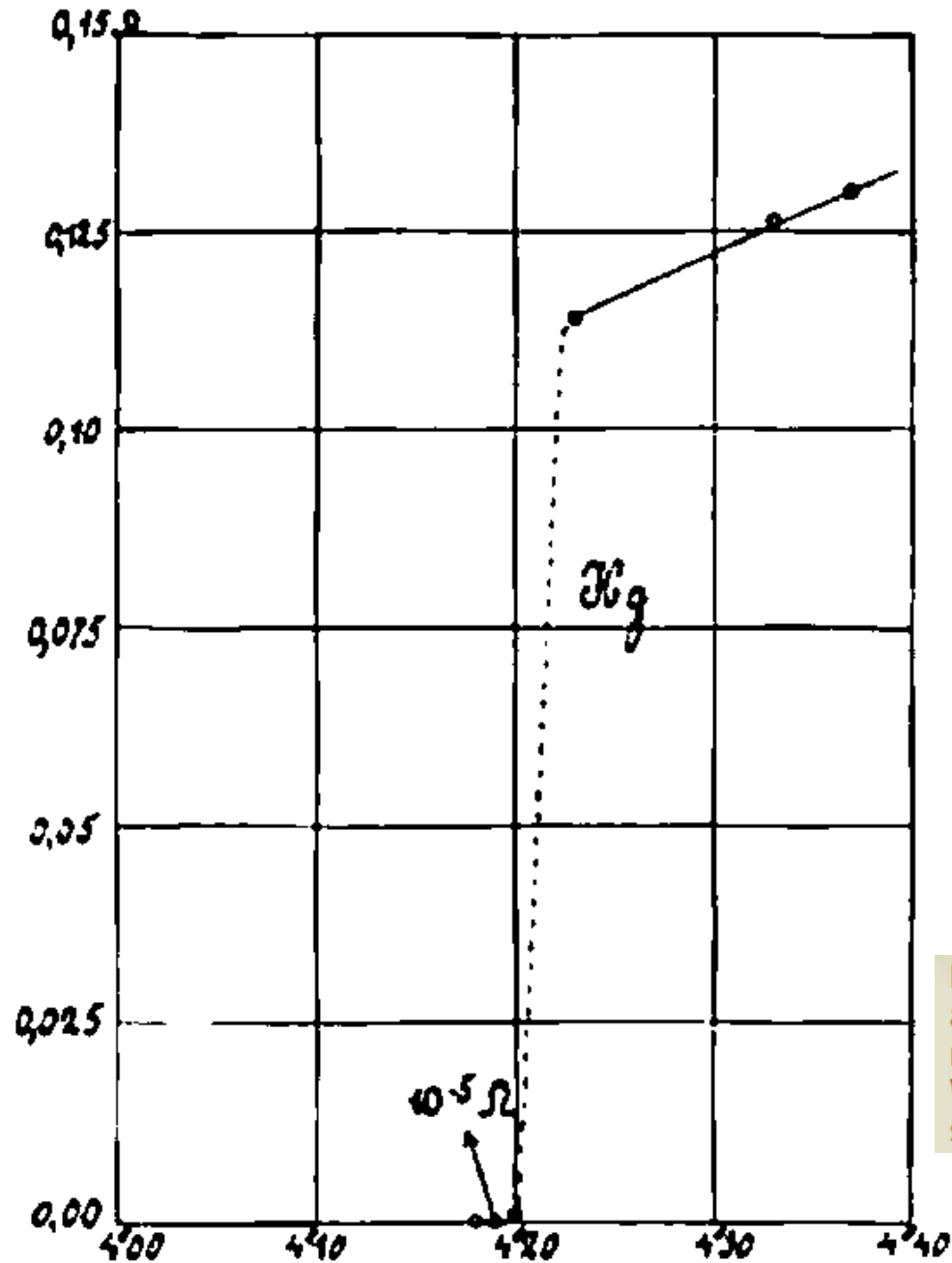


The zero resistance transition of Hg measured in 1911 by Kamerlingh Onnes.



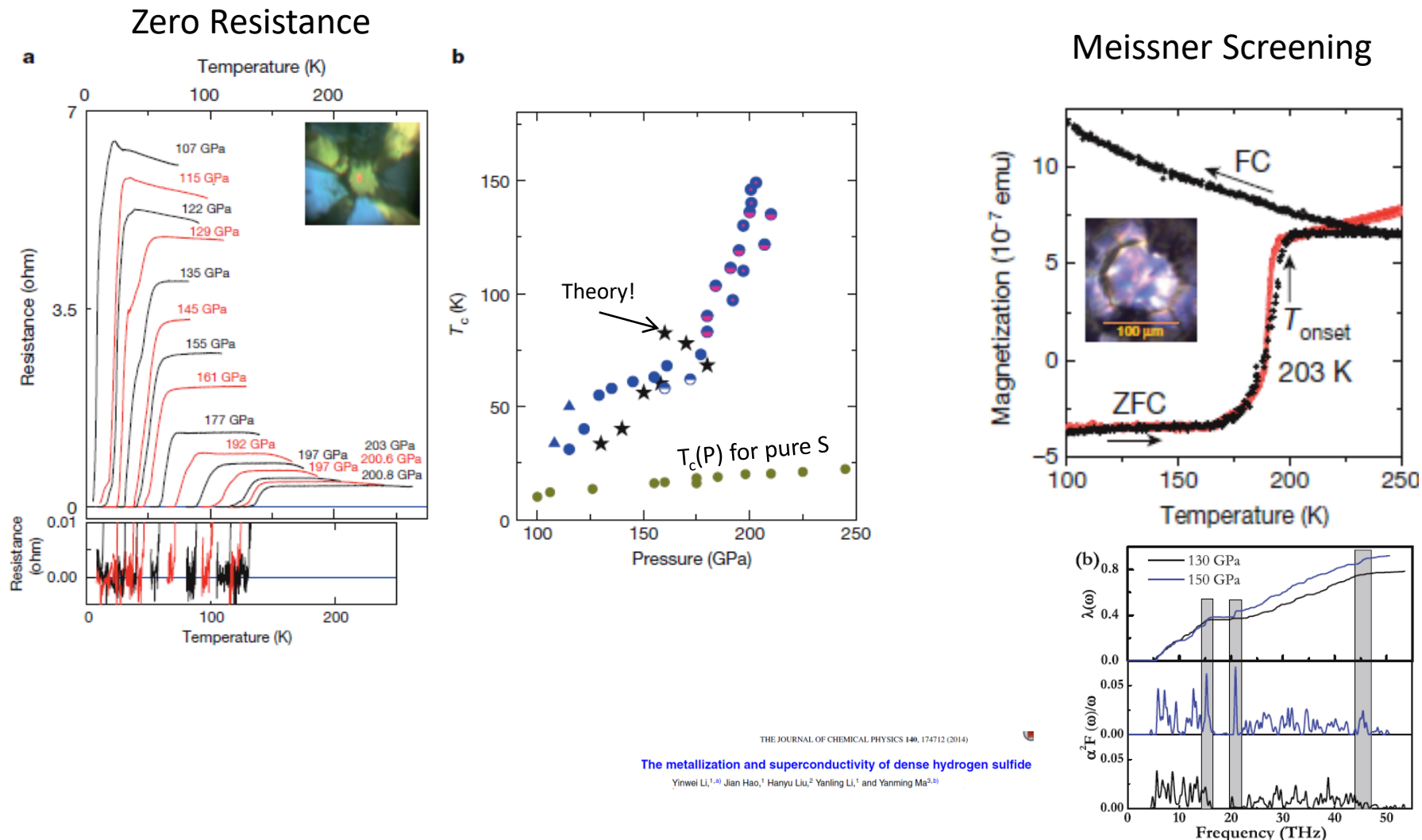
Heike Kamerlingh Onnes (right), the discoverer of superconductivity.
[Paul Ehrenfest](#), [Hendrik Lorentz](#), [Niels Bohr](#) stand to his left.

Figure 4. Historic plot of resistance (ohms) versus temperature (kelvin) for mercury from the 26 October 1911 experiment shows the superconducting transition at 4.20 K. Within 0.01 K, the resistance jumps from unmeasurably small (less than $10^{-6} \Omega$) to 0.1 Ω . (From ref. 9.)

Conventional superconductivity at 203 kelvin at high pressures in the sulfur hydride system

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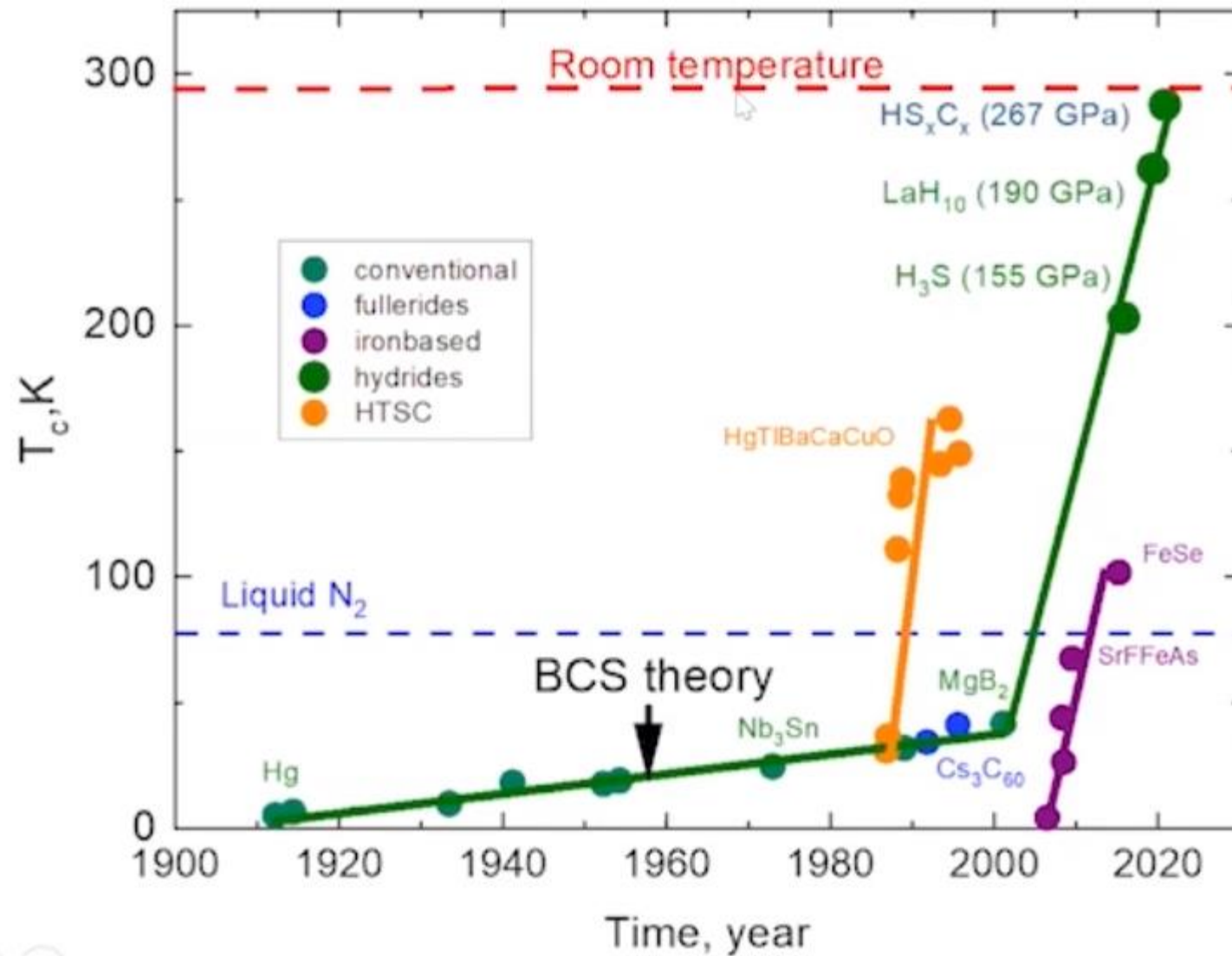


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The metallization and superconductivity of dense hydrogen sulfide

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Critical temperature of superconductivity with time



Materials

Mikhail Eremets Plenary: A Path Towards Room Temperature Superconductivity

Mon. Oct 26, 2020 8:00 AM - 9:00 AM 757 Attending

Superconducting Elements

1	1	H																				2	He													
2	3	Li	4	Be											5	B	6	C	7	N	8	O	9	F	10	Ne										
3	11	Na	12	Mg											13	Al	14	Si	15	P	16	S	17	Cl	18	Ar										
4	19	K	20	Ca	21	Sc	22	Ti	23	V	24	Cr	25	Mn	26	Fe	27	Co	28	Ni	29	Cu	30	Zn	31	Ga	32	Ge	33	As	34	Se	35	Br	36	Kr
5	37	Rb	38	Sr	39	Y	40	Zr	41	Nb	42	Mo	43	Tc	44	Ru	45	Rh	46	Pd	47	Ag	48	Cd	49	In	50	Sn	51	Sb	52	Te	53	I	54	Xe
6	55	Cs	56	Ba	57	La	72	Hf	73	Ta	74	W	75	Re	76	Os	77	Ir	78	Pt	79	Au	80	Hg	81	Tl	82	Pb	83	Bi	84	Po	85	At	86	Rn
7	87	Fr	88	Ra	89	Ac	104	Rf	105	Ha	106	Sg	107	Bh	108	Hs	109	Mt	110	Ds	111	Rg	112	Uub												
	58	Ce	59	Pr	60	Nd	61	Pm	62	Sm	63	Eu	64	Gd	65	Tb	66	Dy	67	Ho	68	Er	69	Tm	70	Yb	71	Lu								
	90	Th	91	Pa	92	U	93	Np	94	Pu	95	Am	96	Cm	97	Bk	98	Cf	99	Es	100	Fm	101	Md	102	No	103	Lr								

■ In Bulk at Ambient Pressure
■ At High Pressure
■ In Modified Form