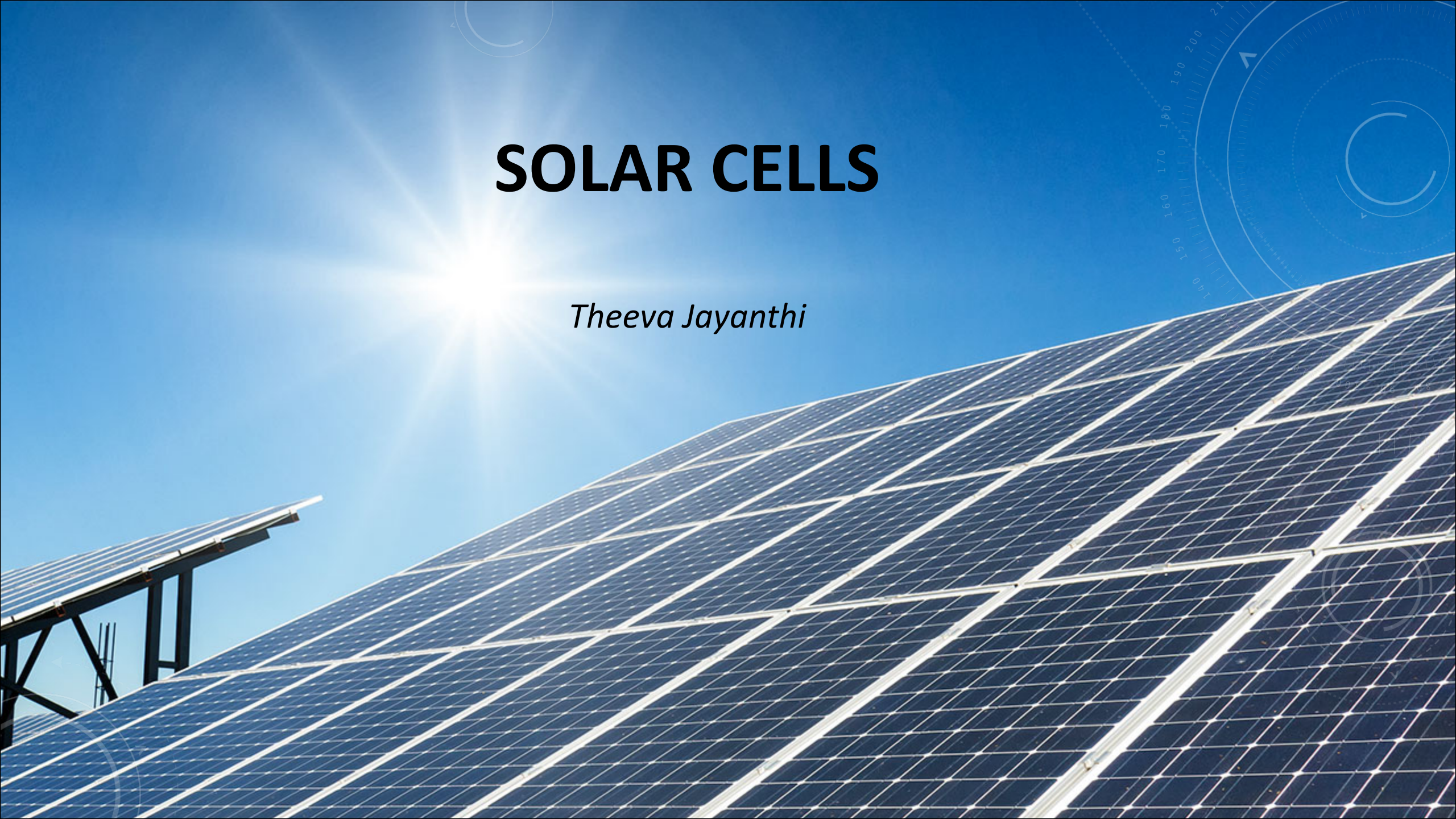


# SOLAR CELLS

*Theeva Jayanthi*

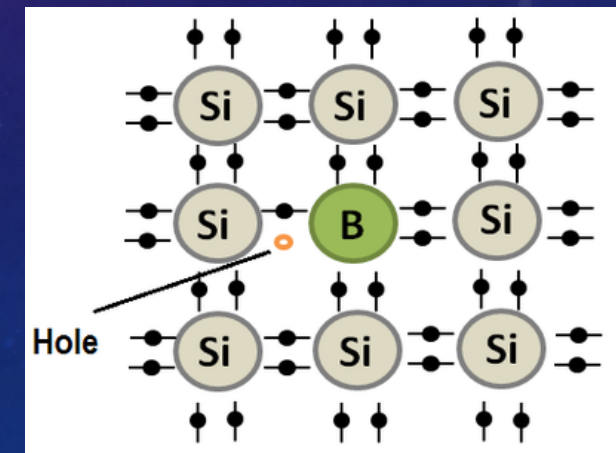
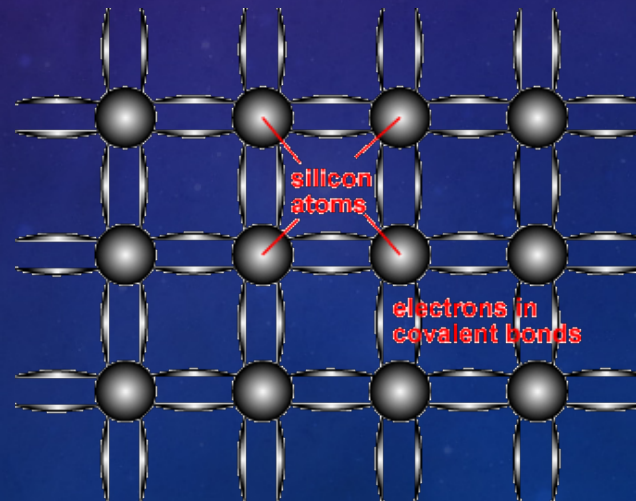


# WHAT ARE THEY ?

- Also called PV (photovoltaic) cells
- Made from semiconductors
- Found in group IV, III-V, II-VI

PV education.org

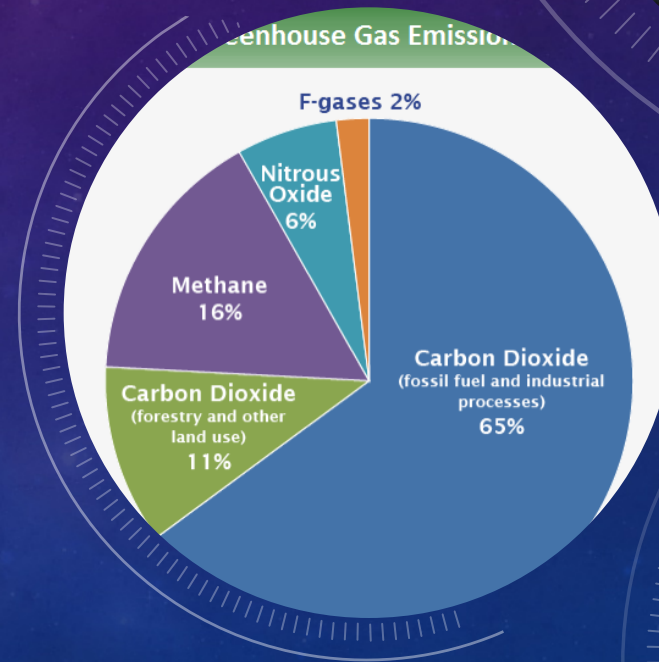
										VIIIA
										2
										He
										4.003
					IIIA	IVA	VA	VIA	VIIA	10
					5	6	7	8	9	Ne
					B	C	N	O	F	20.183
					10.811	12.011	14.007	15.999	18.998	
		IB	IIB	13	14	15	16	17	18	
				Al	Si	P	S	Cl	Ar	
				26.982	28.086	30.974	32.064	35.453	39.948	
29	30	31	32	33	34	35	36			
Cu	Zn	Ga	Ge	As	Se	Br	Kr			
63.54	65.37	69.72	72.59	74.922	78.96	79.909	83.80			
47	48	49	50	51	52	53	54			
Ag	Cd	In	Sn	Sb	Te	I	Xe			
107.870	112.40	114.82	118.69	121.75	127.60	126.904	131.30			
79	80	81	82	83	84	85	86			
Au	Hg	Tl	Pb	Bi	Po	At	Rn			
196.967	200.59	204.37	207.19	208.980	(210)	(210)	(222)			



Energy education

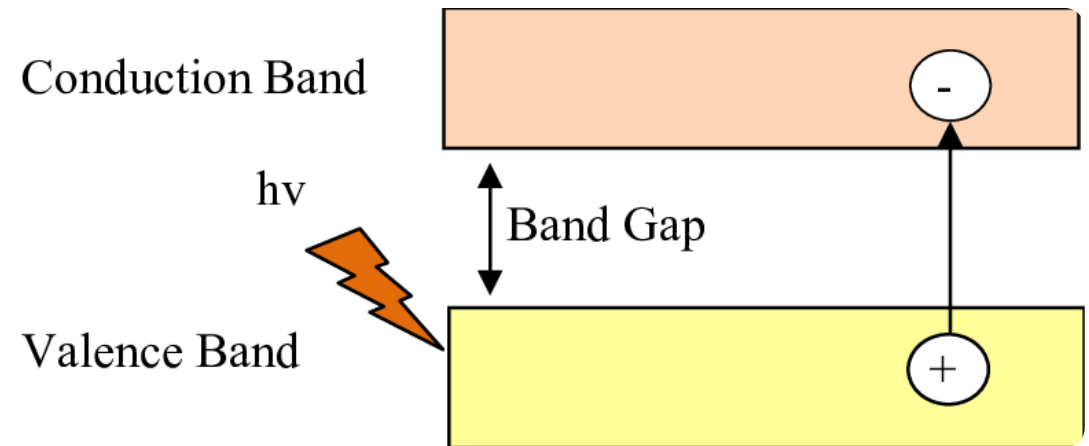
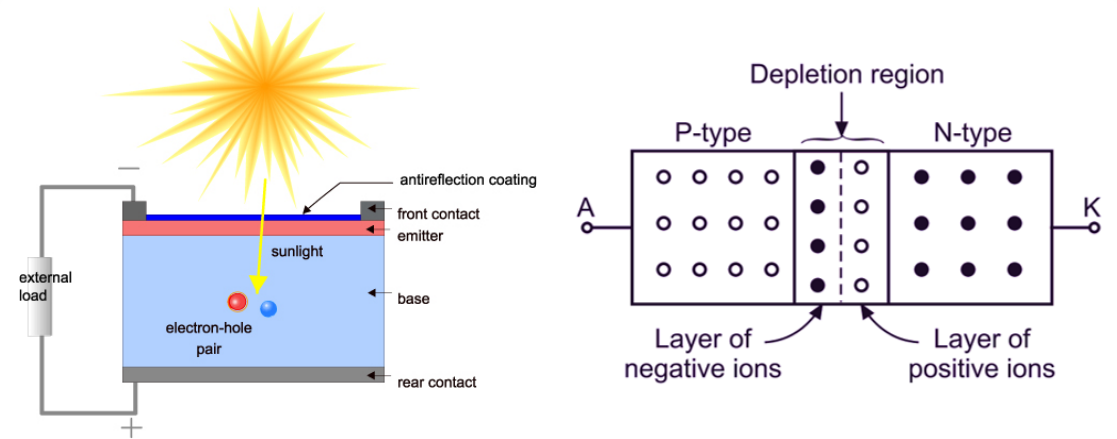
# WHY SHOULD WE CARE ABOUT SOLAR CELLS?

- Clean energy
- Renewable
- No green house gases
- Space industry

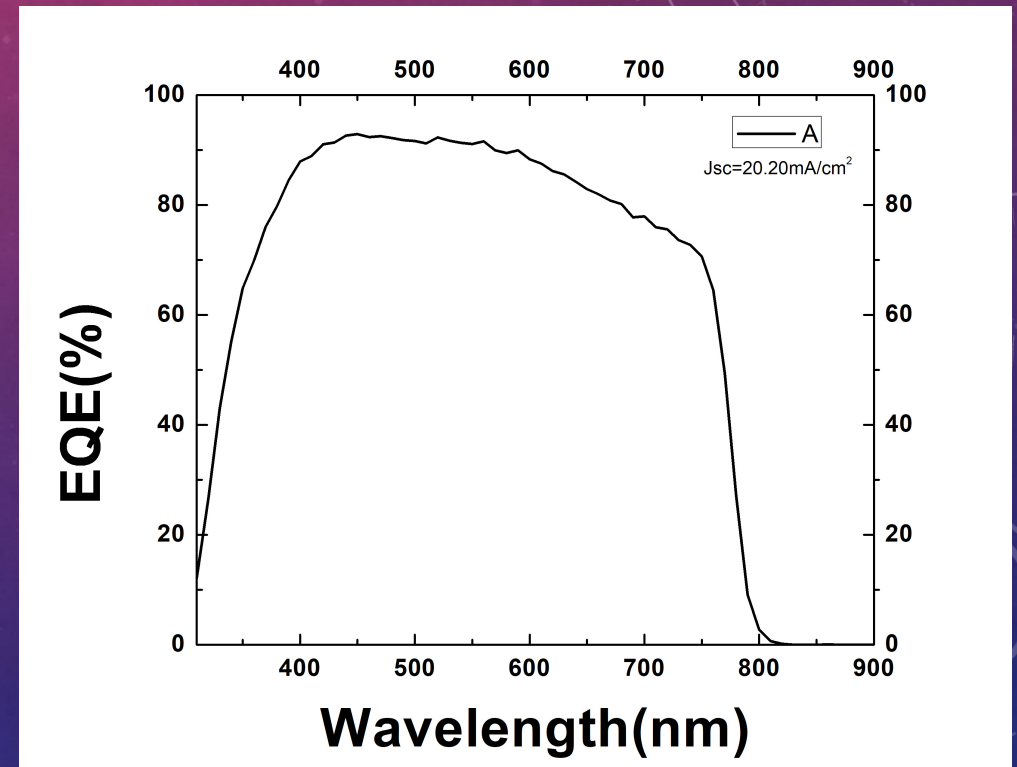
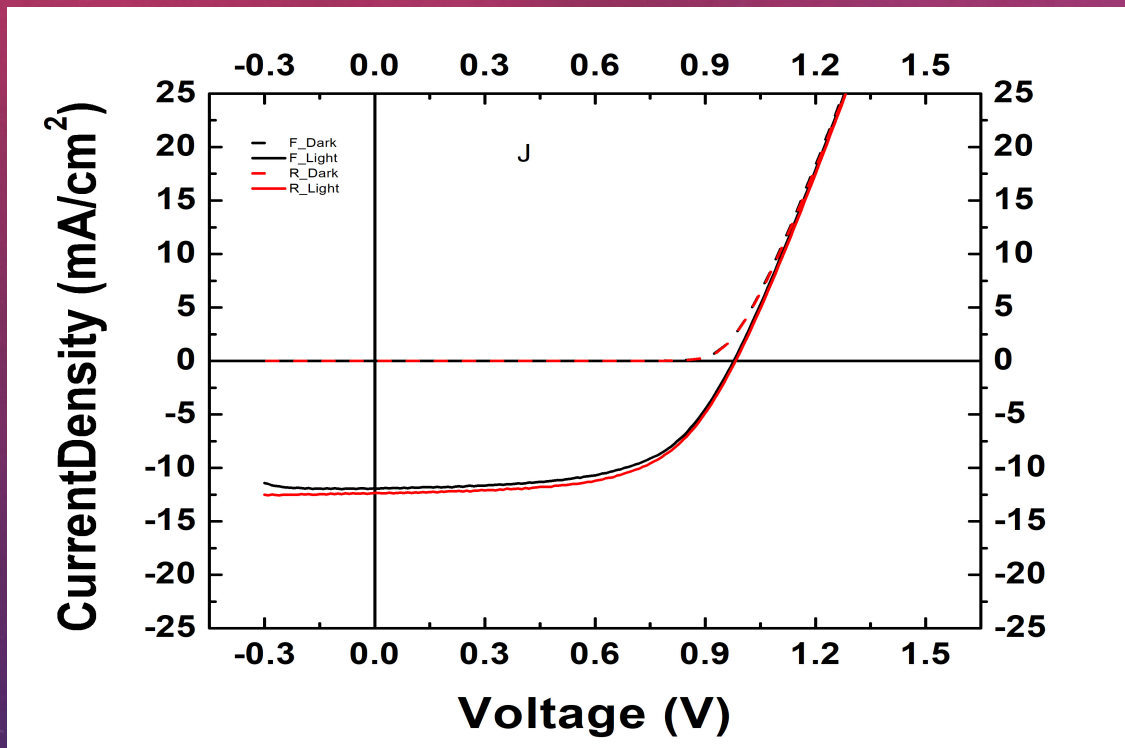


# HOW DO SOLAR CELLS WORK?

- Excite electrons
- Generation of electron-hole pair
- Capture the electrons



# WHAT WE HAVE BEEN DOING



The background features a vertical gradient from deep purple at the top to vibrant blue at the bottom. It is filled with soft, out-of-focus bokeh circles in various shades of purple and blue. On the left side, there are several semi-transparent technical diagrams, including circular gauges with numerical scales (ranging from 140 to 260) and dashed lines with arrows, suggesting a scientific or engineering theme.

THANK YOU!