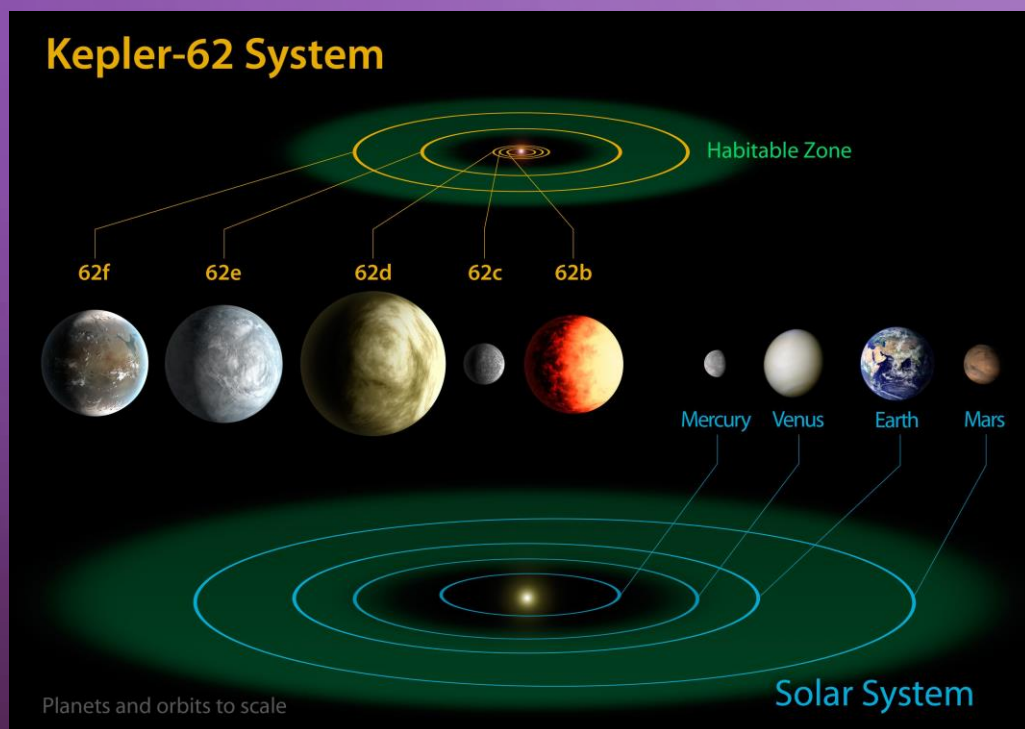


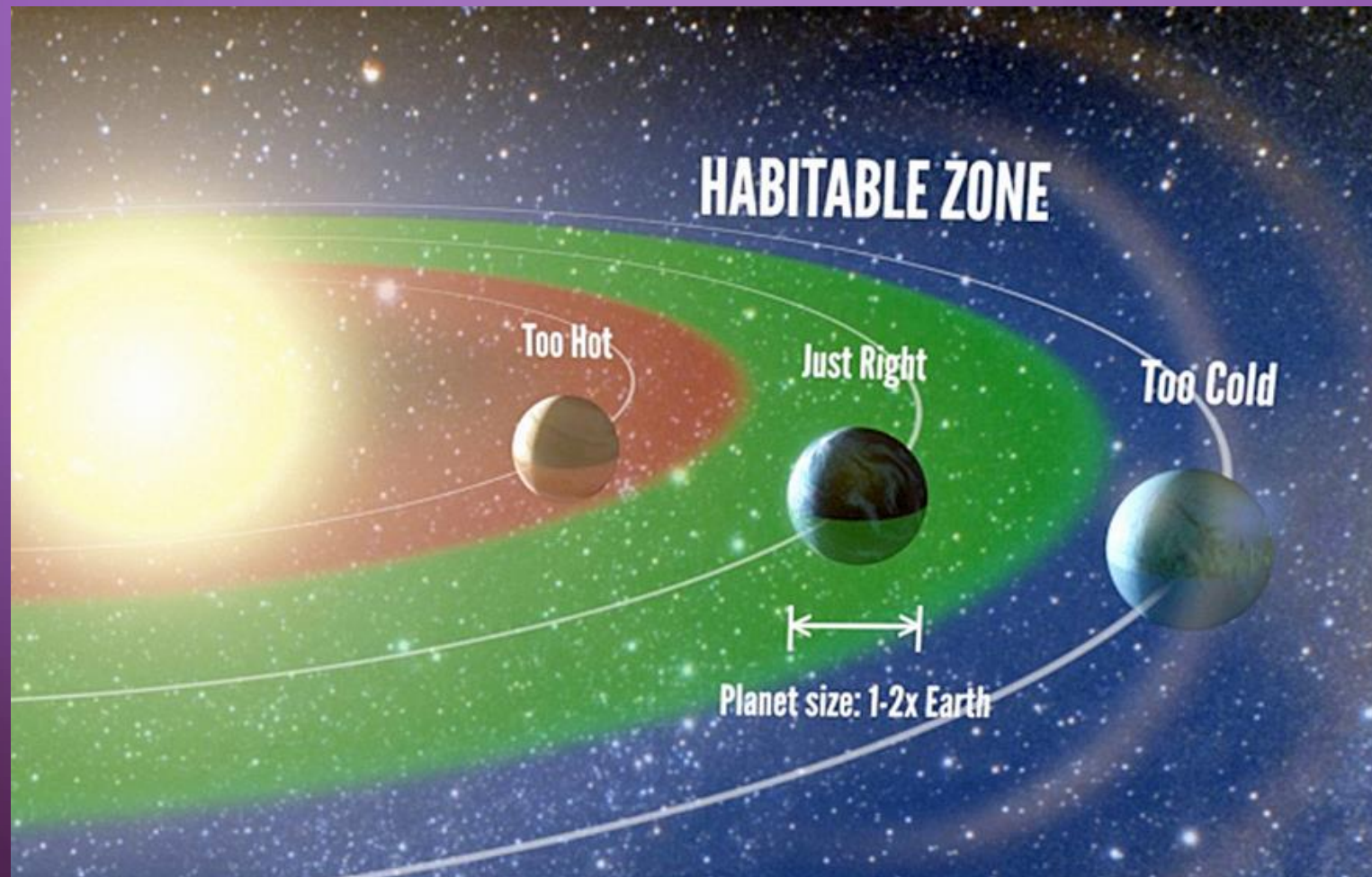
Naučni koncepti u filmovima o superherojima



EGZOPLANETE

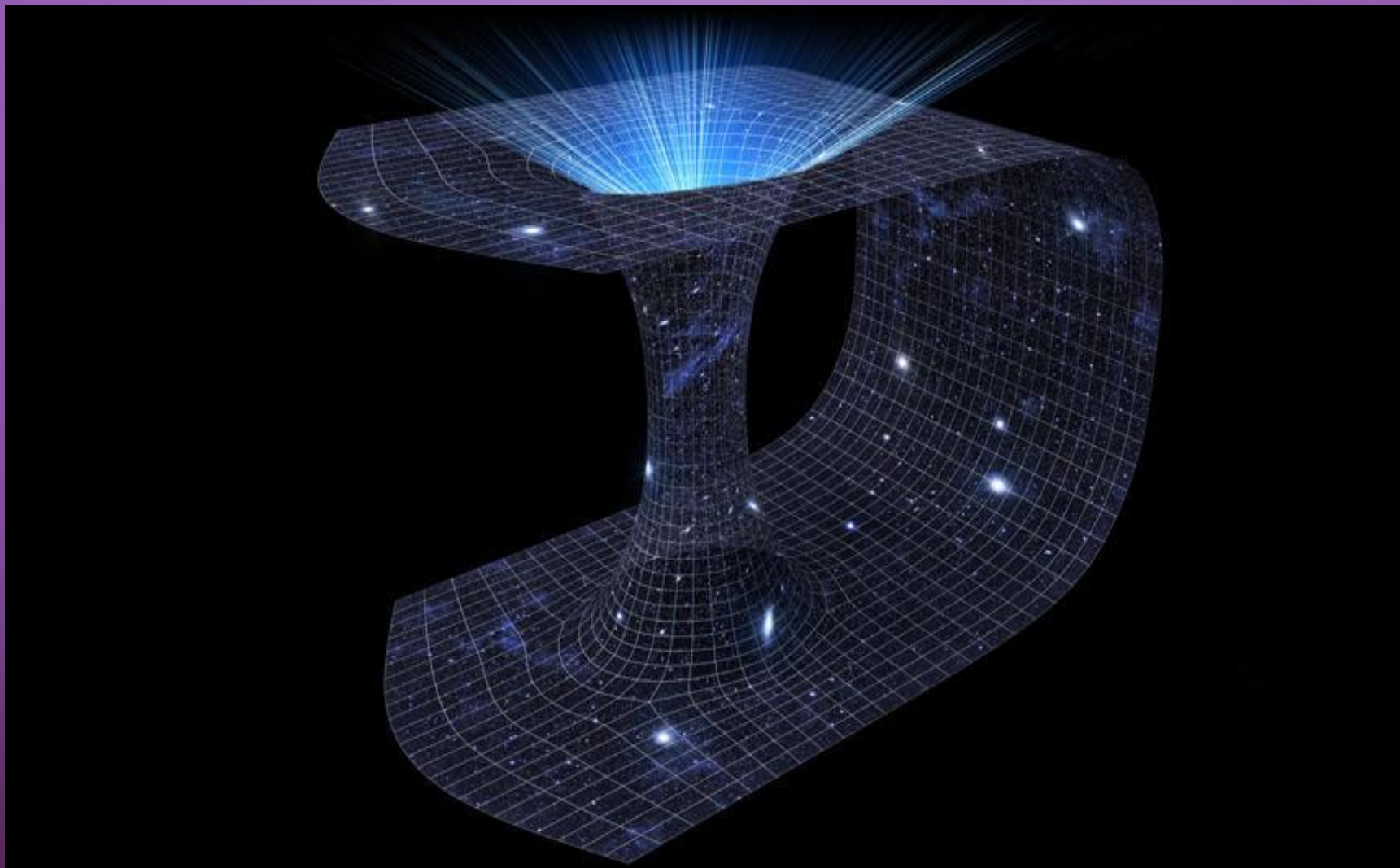


EGZOPLANETE: PRIVLAČNOST „GOLDILOCKS ZONE”



THOR: EINSTEIN-ROSENOV MOST (CRVOTOČINE)





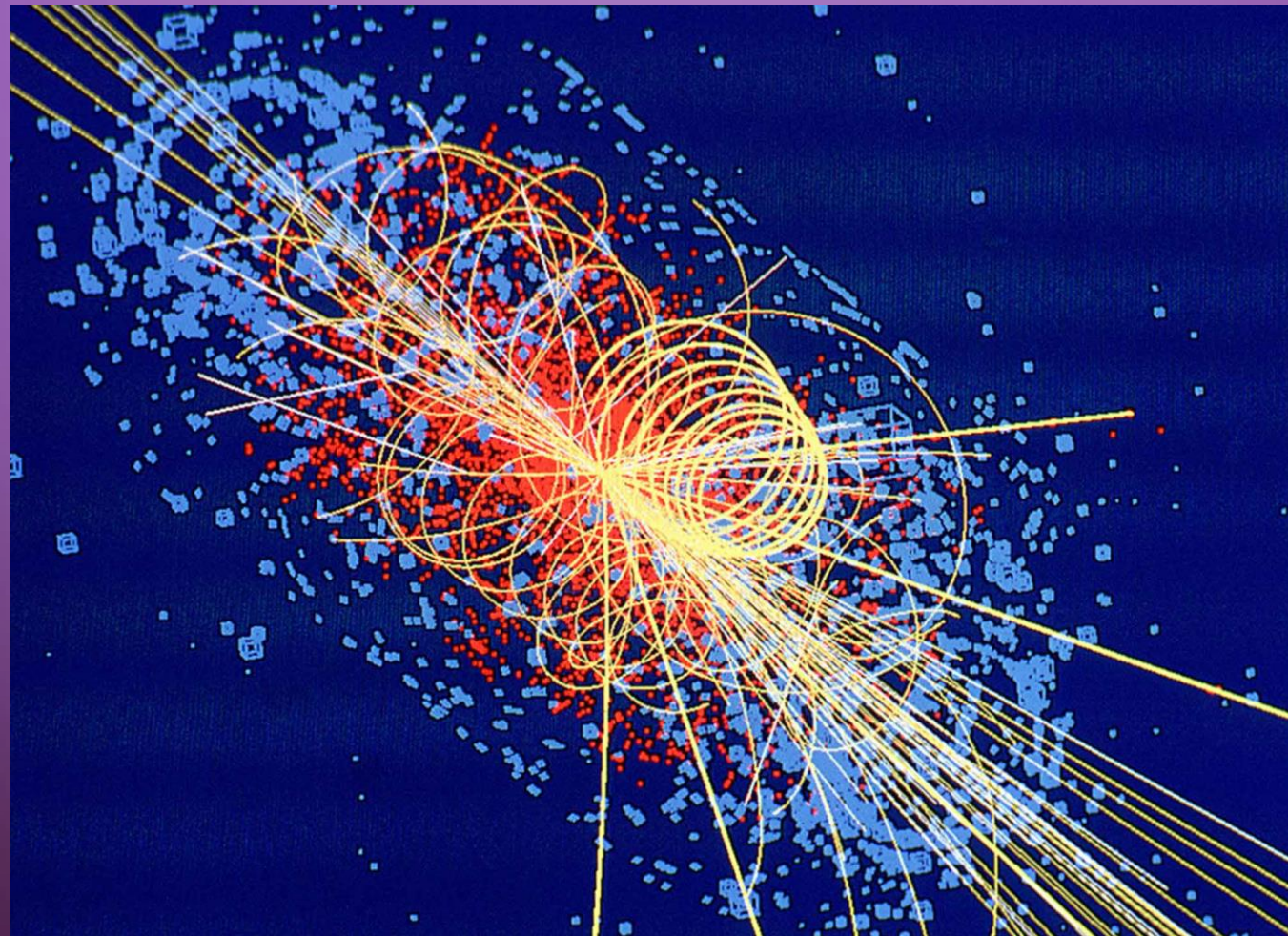
ANTMAN: SVIJET KVANTNE FIZIKE U KOJOJ VRIJEDE DRUGAČIJA PRAVILA



CERN – EVROPSKI INSTITUT ZA NUKLEARNA ISTRAŽIVANJA (CMS DETEKTOR)



SIMULACIJA DETEKCIJE HIGGSOVOG BOZONA (CERN, 2012.)



<div>LEPTONS</div>	<div> <div>mass →</div> <div>charge →</div> <div>spin →</div> </div> <div> <div>$\approx 2.3 \text{ MeV}/c^2$</div> <div>$2/3$</div> <div>$1/2$</div> </div> <div> <div>u</div> <div>up</div> </div>	<div> <div>mass →</div> <div>charge →</div> <div>spin →</div> </div> <div> <div>$\approx 1.275 \text{ GeV}/c^2$</div> <div>$2/3$</div> <div>$1/2$</div> </div> <div> <div>c</div> <div>charm</div> </div>	<div> <div>mass →</div> <div>charge →</div> <div>spin →</div> </div> <div> <div>$\approx 173.07 \text{ GeV}/c^2$</div> <div>$2/3$</div> <div>$1/2$</div> </div> <div> <div>t</div> <div>top</div> </div>	<div> <div>mass →</div> <div>charge →</div> <div>spin →</div> </div> <div> <div>0</div> <div>0</div> <div>1</div> </div> <div> <div>g</div> <div>gluon</div> </div>	<div> <div>mass →</div> <div>charge →</div> <div>spin →</div> </div> <div> <div>$\approx 126 \text{ GeV}/c^2$</div> <div>0</div> <div>0</div> </div> <div> <div>H</div> <div>Higgs boson</div> </div>
	<div> <div>mass →</div> <div>charge →</div> <div>spin →</div> </div> <div> <div>$\approx 4.8 \text{ MeV}/c^2$</div> <div>$-1/3$</div> <div>$1/2$</div> </div> <div> <div>d</div> <div>down</div> </div>	<div> <div>mass →</div> <div>charge →</div> <div>spin →</div> </div> <div> <div>$\approx 95 \text{ MeV}/c^2$</div> <div>$-1/3$</div> <div>$1/2$</div> </div> <div> <div>s</div> <div>strange</div> </div>	<div> <div>mass →</div> <div>charge →</div> <div>spin →</div> </div> <div> <div>$\approx 4.18 \text{ GeV}/c^2$</div> <div>$-1/3$</div> <div>$1/2$</div> </div> <div> <div>b</div> <div>bottom</div> </div>	<div> <div>mass →</div> <div>charge →</div> <div>spin →</div> </div> <div> <div>0</div> <div>0</div> <div>1</div> </div> <div> <div>γ</div> <div>photon</div> </div>	
	<div> <div>mass →</div> <div>charge →</div> <div>spin →</div> </div> <div> <div>$0.511 \text{ MeV}/c^2$</div> <div>-1</div> <div>$1/2$</div> </div> <div> <div>e</div> <div>electron</div> </div>	<div> <div>mass →</div> <div>charge →</div> <div>spin →</div> </div> <div> <div>$105.7 \text{ MeV}/c^2$</div> <div>-1</div> <div>$1/2$</div> </div> <div> <div>μ</div> <div>muon</div> </div>	<div> <div>mass →</div> <div>charge →</div> <div>spin →</div> </div> <div> <div>$1.777 \text{ GeV}/c^2$</div> <div>-1</div> <div>$1/2$</div> </div> <div> <div>τ</div> <div>tau</div> </div>	<div> <div>mass →</div> <div>charge →</div> <div>spin →</div> </div> <div> <div>$91.2 \text{ GeV}/c^2$</div> <div>0</div> <div>1</div> </div> <div> <div>Z</div> <div>Z boson</div> </div>	
	<div> <div>mass →</div> <div>charge →</div> <div>spin →</div> </div> <div> <div>$< 2.2 \text{ eV}/c^2$</div> <div>0</div> <div>$1/2$</div> </div> <div> <div>ν_e</div> <div>electron neutrino</div> </div>	<div> <div>mass →</div> <div>charge →</div> <div>spin →</div> </div> <div> <div>$< 0.17 \text{ MeV}/c^2$</div> <div>0</div> <div>$1/2$</div> </div> <div> <div>ν_μ</div> <div>muon neutrino</div> </div>	<div> <div>mass →</div> <div>charge →</div> <div>spin →</div> </div> <div> <div>$< 15.5 \text{ MeV}/c^2$</div> <div>0</div> <div>$1/2$</div> </div> <div> <div>ν_τ</div> <div>tau neutrino</div> </div>	<div> <div>mass →</div> <div>charge →</div> <div>spin →</div> </div> <div> <div>$80.4 \text{ GeV}/c^2$</div> <div>± 1</div> <div>1</div> </div> <div> <div>W</div> <div>W boson</div> </div>	<div>GAUGE BOSONS</div>

AGE OF ULTRON: UMJETNA INTELIGENCIJA, TEHNOLOŠKA SINGULARNOST



X-MEN: MUTANTI

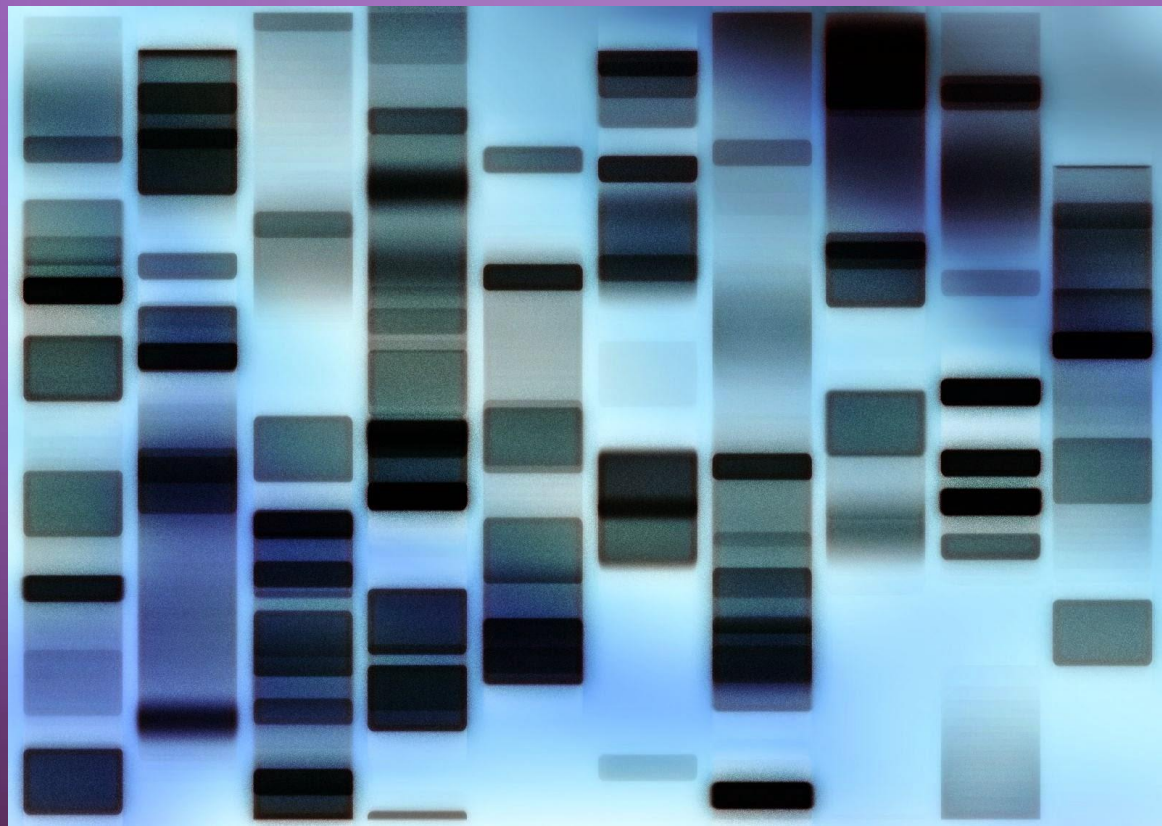


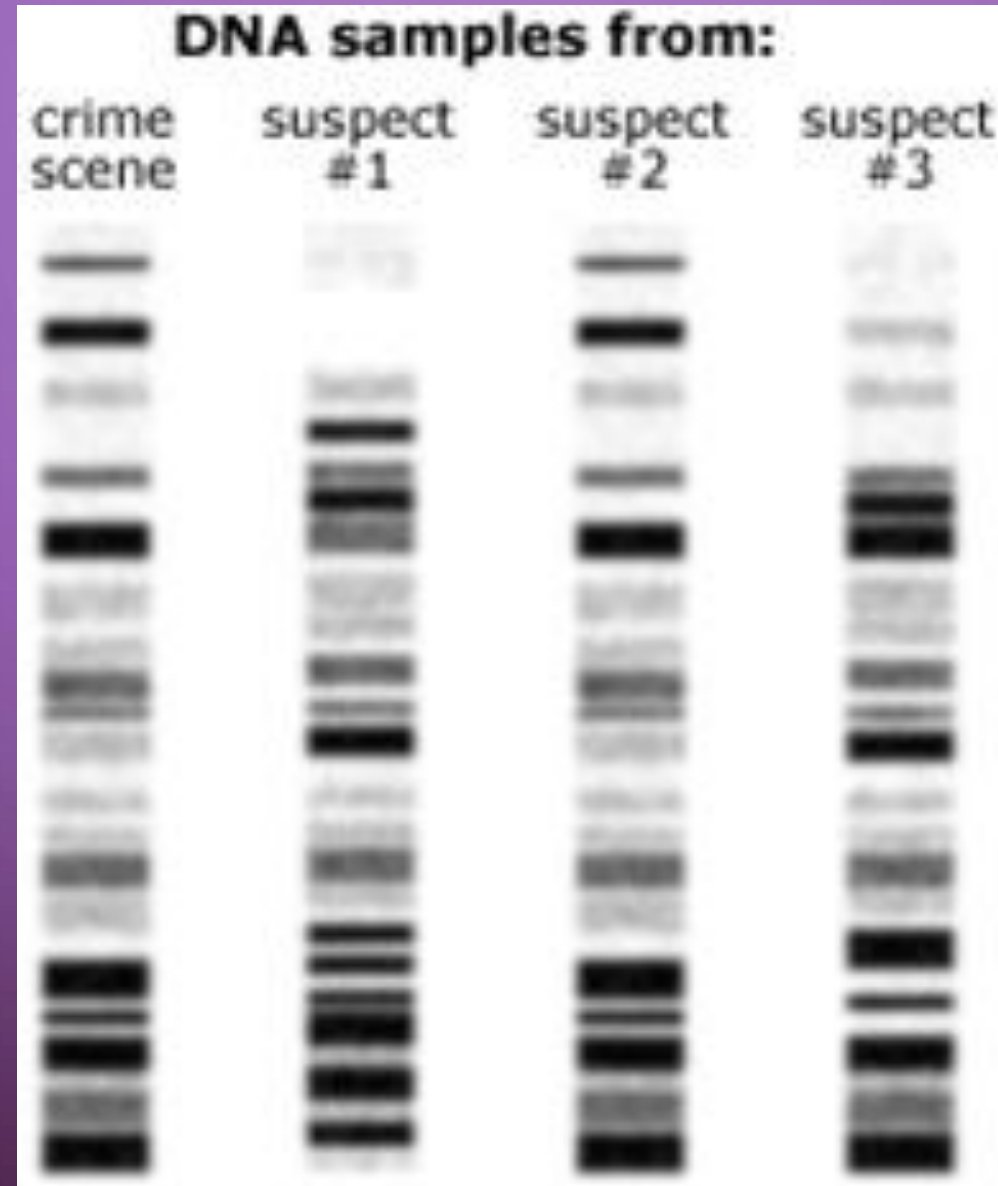
THE AMAZING SPIDER-MAN : MUTACIJE I DNK FINGERPRINTING

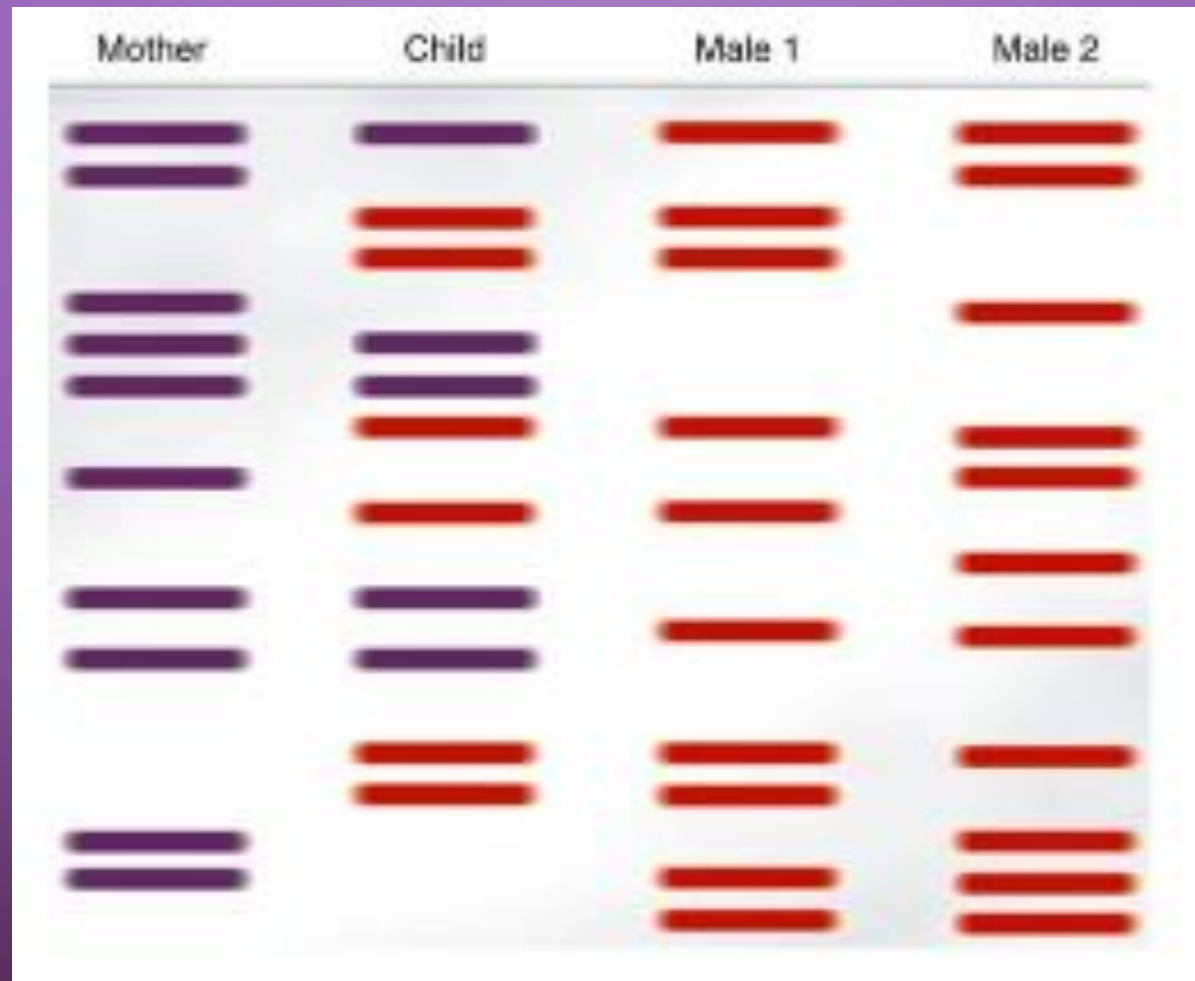




DNK OTISAK (DNA FINGERPRINT): INDIVIDUALNO SPECIFIČAN UZORAK PONAVLJAJUĆIH SEKVENCI DNK







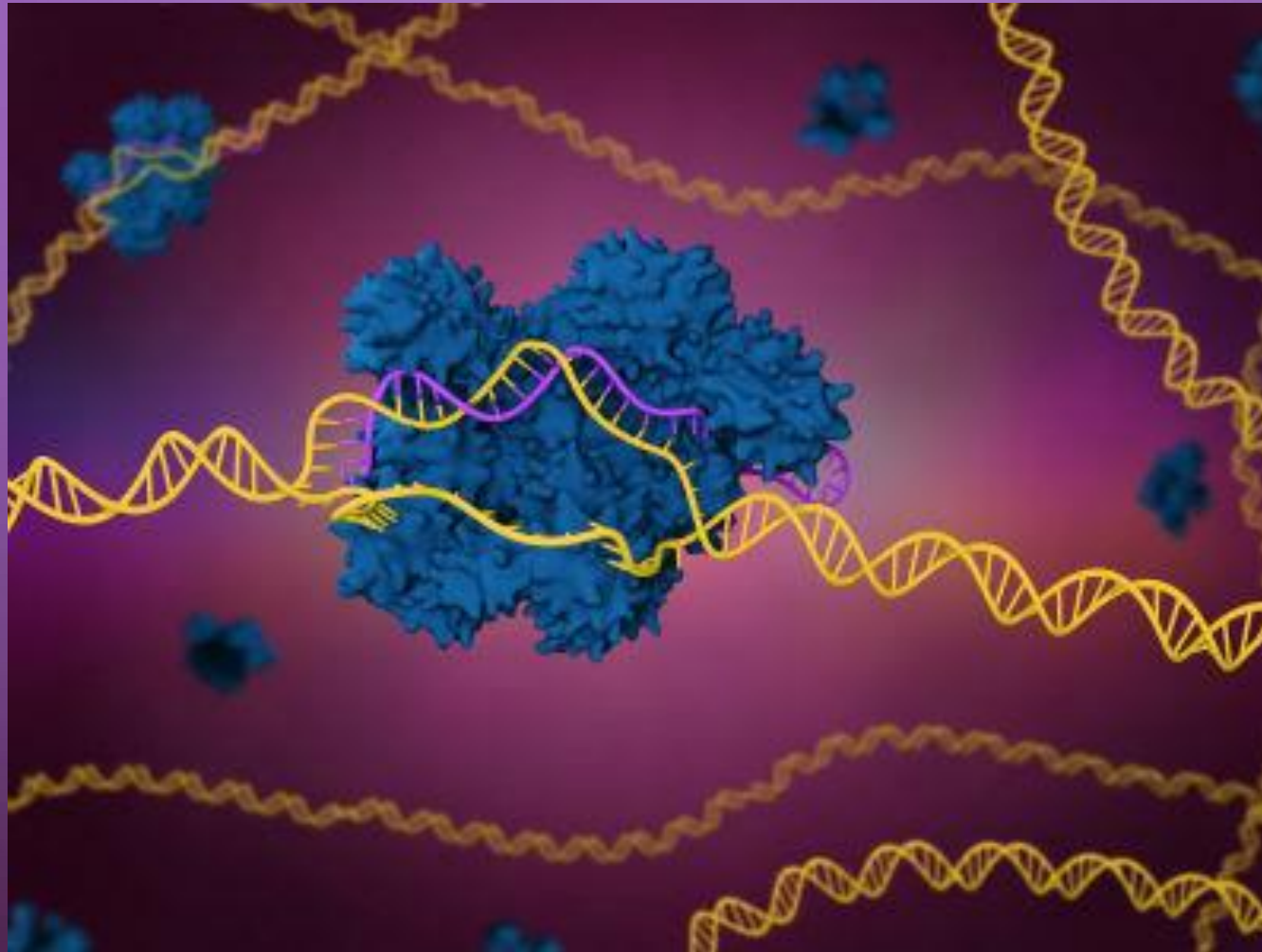
VENOM: ENDOSIMBIONTI - BAKTERIJE U NAMA - MIKROBIOM



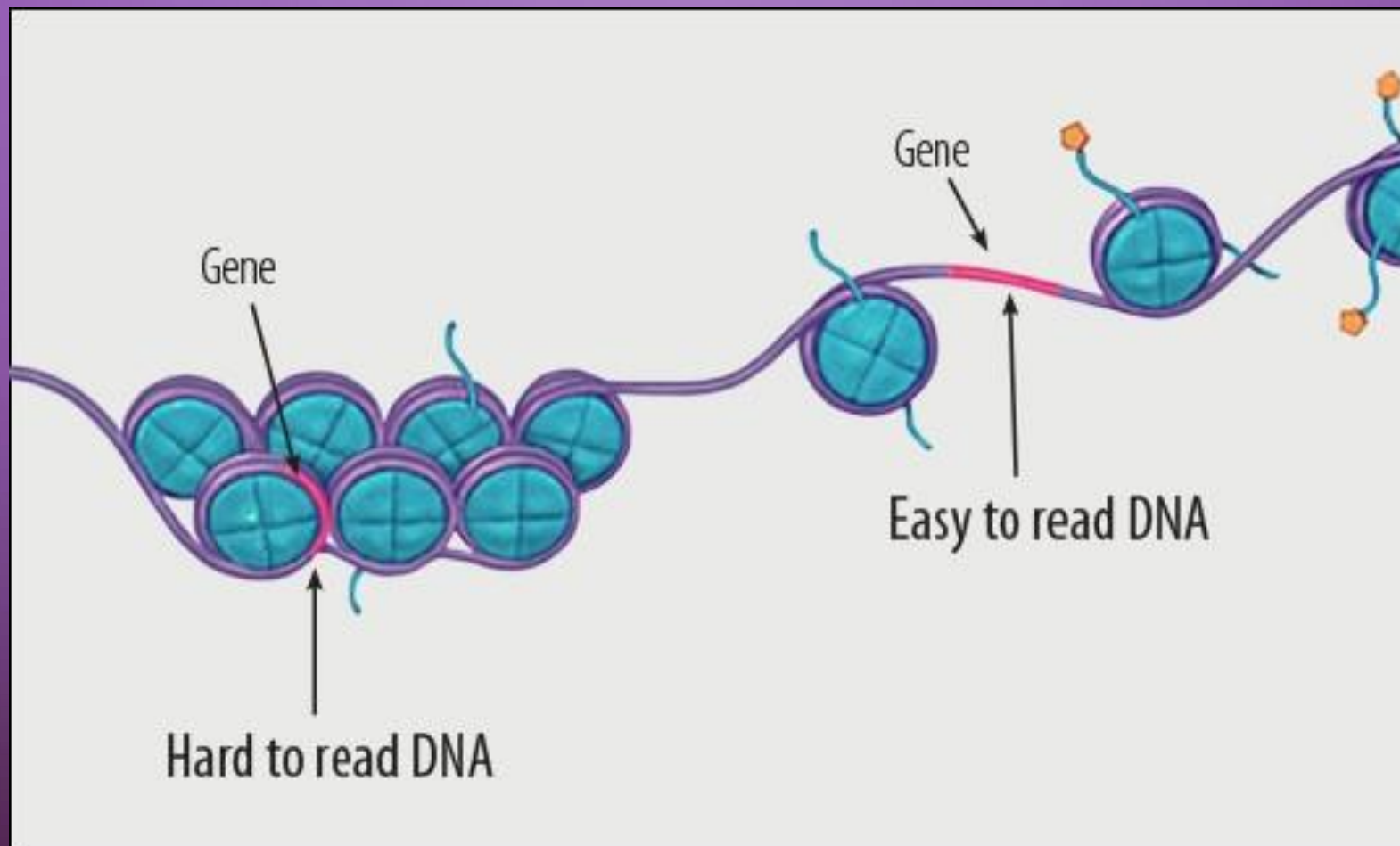
AVENGERS: RADIJACIJA, MUTACIJE, GENSKE TERAPIJE I EPIGENETIKA



CRISPR-CAS9: ČUDA EDITOVANJA DNK



EPIGENETIKA



IRON MAN: PERIODNI SISTEM I SINTETSKI ELEMENTI



	1																	18
1	H 1																	He 2
2	Li 3	Be 4											B 5	C 6	N 7	O 8	F 9	Ne 10
3	Na 11	Mg 12											Al 13	Si 14	P 15	S 16	Cl 17	Ar 18
4	K 19	Ca 20	Sc 21	Ti 22	V 23	Cr 24	Mn 25	Fe 26	Co 27	Ni 28	Cu 29	Zn 30	Ga 31	Ge 32	As 33	Se 34	Br 35	Kr 36
5	Rb 37	Sr 38	Y 39	Zr 40	Nb 41	Mo 42	Tc 43	Ru 44	Rh 45	Pd 46	Ag 47	Cd 48	In 49	Sn 50	Sb 51	Te 52	I 53	Xe 54
6	Cs 55	Ba 56	*	Hf 72	Ta 73	W 74	Re 75	Os 76	Ir 77	Pt 78	Au 79	Hg 80	Tl 81	Pb 82	Bi 83	Po 84	At 85	Rn 86
7	Fr 87	Ra 88	**	Rf 104	Db 105	Sg 106	Bh 107	Hs 108	Mt 109	Ds 110	Rg 111	Cn 112	Nh 113	Fl 114	Mc 115	Lv 116	Ts 117	Og 118

* lanthanoids	La 57	Ce 58	Pr 59	Nd 60	Pm 61	Sm 62	Eu 63	Gd 64	Tb 65	Dy 66	Ho 67	Er 68	Tm 69	Yb 70	Lu 71
** actinoids	Ac 89	Th 90	Pa 91	U 92	Np 93	Pu 94	Am 95	Cm 96	Bk 97	Cf 98	Es 99	Fm 100	Md 101	No 102	Lr 103

-ENDGAME-

