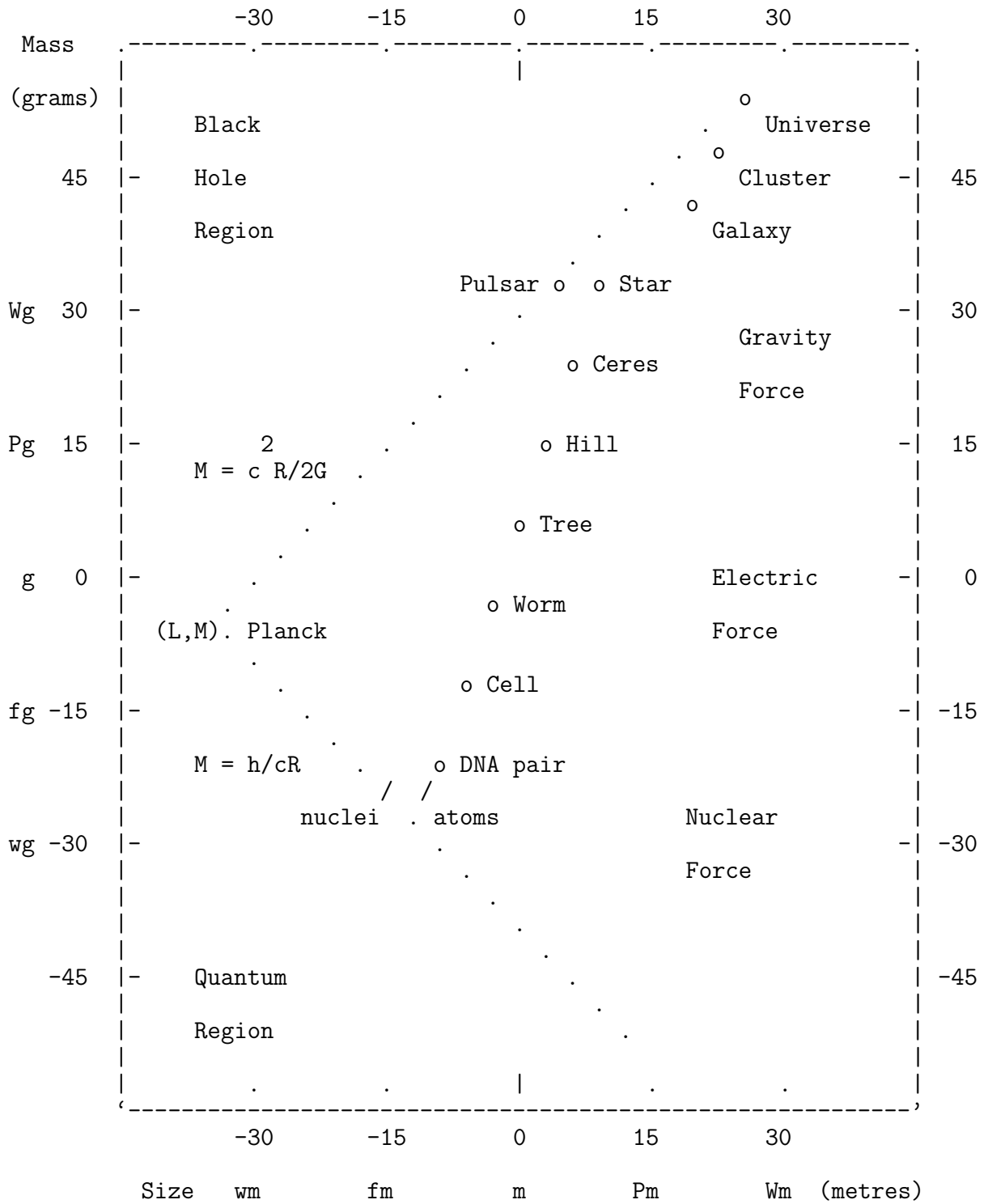


Mass and Size of Objects in the Universe on a log log Scale



vm xm zm fm nm mm km Gm Pm Zm Xm Vm

um wm ym am pm ,um m Mm Tm Em Ym Wm Um

Objects lie outside the black hole and quantum regions.
The radius (R) of a black hole of mass M is: $2GM / c^2$.
The quantum Compton wavelength of a mass M is: h / Mc .
Regarding size, a factor of thousand separates objects:
DNA basepair (1nm), a cell (1micron), C. Elegans (1mm),
tree (1 m), hill (1km), big asteroid (1Mm), sun (~1Gm).
A billion separates the masses if the density is 1g/cc:
DNA basepair (1zg), a cell (1pg), sequenced worm (1mg),
tree (1Mg), hill (1Pg), big asteroid (1Yg), sun (~2Vg).
A string theory article in Scientific American July '00
suggests that two extra 1 mm curled up space dimensions
could mean that the law of gravity changes from inverse
square to inverse fourth power for distances below a mm.

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SI system of units with recent extensions for large and small

gram	g		0		g	gram
milligram	mg	- 3		3	kg	kilogram
microgram	,ug	- 6		6	Mg	megagram
nanogram	ng	- 9		9	Gg	gigagram
picogram	pg	-12		12	Tg	teragram
femtogram	fg	-15		15	Pg	petagram
attogram	ag	-18		18	Eg	exagram
zeptogram	zg	-21		21	Zg	zettagram
yoctogram	yg	-24		24	Yg	yottagram
xennogram	xg	-27		27	Xg	xennagram
wodekogram	wg	-30		30	Wg	wodekagram
vendekogram	vg	-33		33	Vg	vendekagram
udodekogram	ug	-36		36	Ug	udodekagram