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physics and geometry

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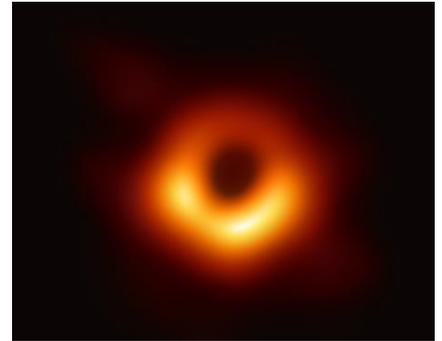


BLR gas:

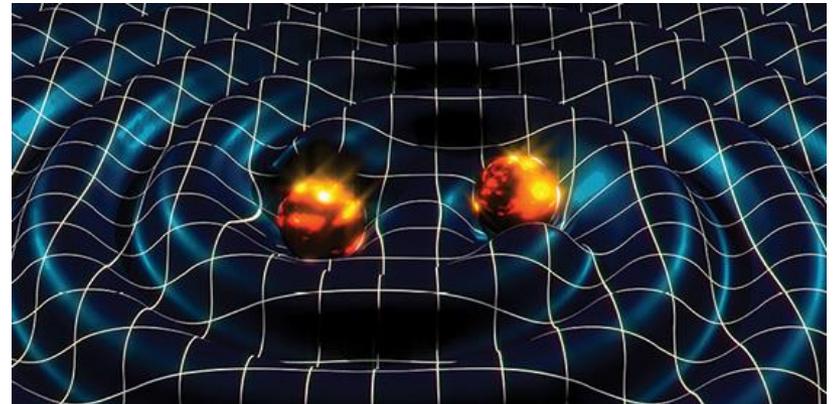
$T_e \sim 10^4 \text{ K}$

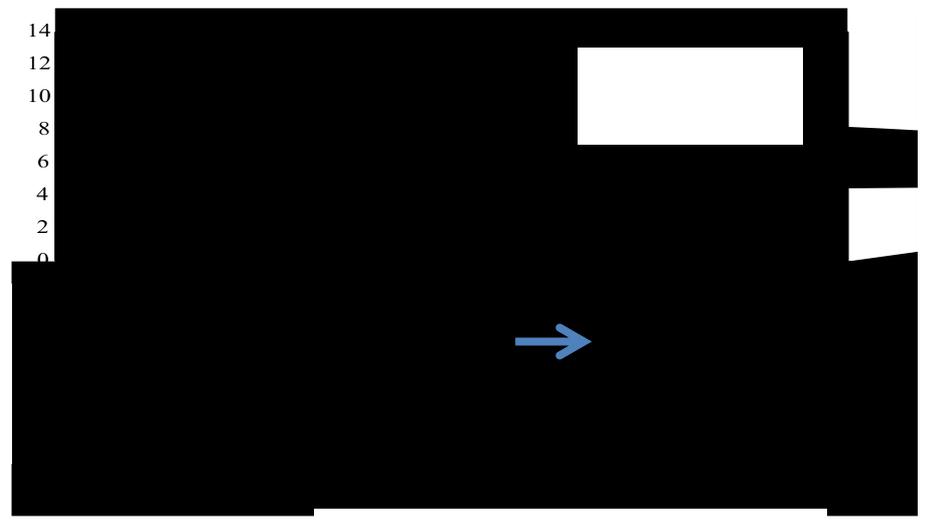
$N_e \sim 10^8 - 10^{14} \text{ cm}^{-3}$

→ spectroscopy still important tool



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Alla Shapovalova (Russia)





Seyfert 1s:

NGC 5548

NGC 4151

NGC 7469

NGC 3516

Narrow Line Seyfert 1:

Ark 564

Double Peaked Line AGNs (DPLs):

3C 390.3

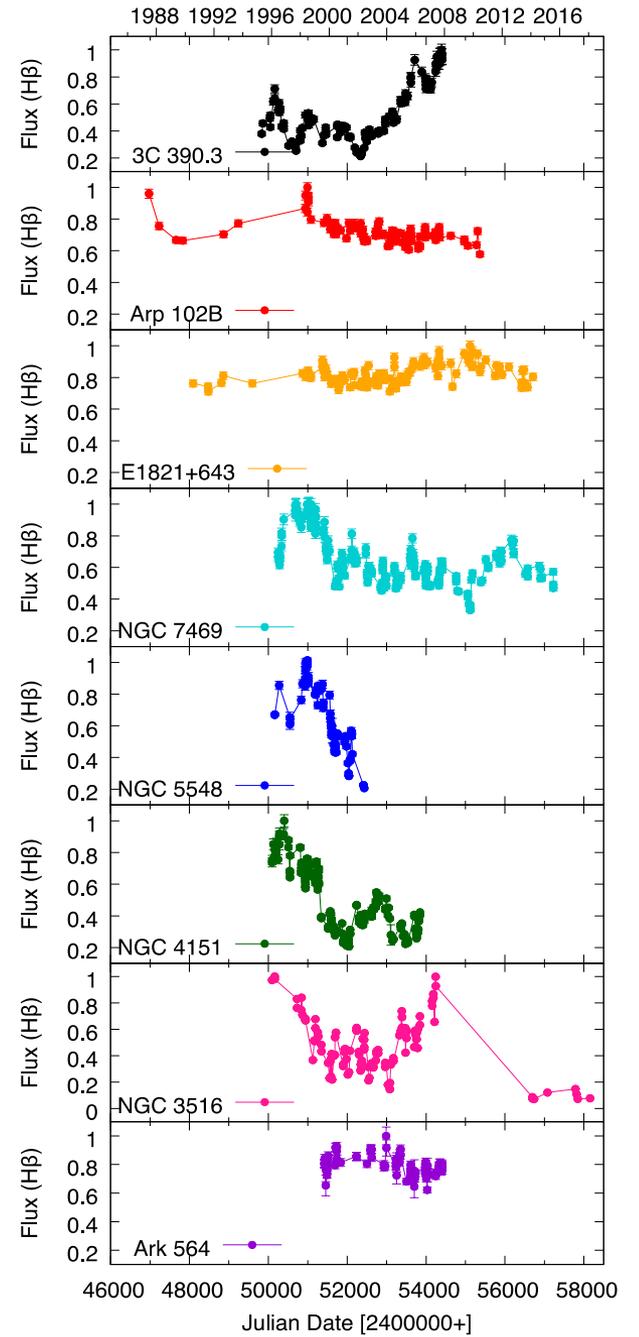
Arp 102B

High luminosity quasar

E1821+643

Main papers:

long-term







Objects of the SAO's monitoring programme (1996-2016)

