

Quantities to estimate:

- continuum luminosity and slope (shape?);
- host galaxy contribution;
- iron luminosity and width;
- Emission lines:
 - luminosity;
 - width (profile?);
 - velocity offset;

QSFit: automatic Automatic analysis of optical AGN spectra

- quick (~8 s per spectrum);
- standardized recipe;
- ensure replicability and shareability;

- written in IDL;
- based on MPFIT;
- released as free software (GPL).



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013418.19+001536.6	23.575802	0.260191	0.4	400	51820	512	86.219			13
072840.59+391043.8	112.169151	39.178844	0.3991	1733	53047	482	44.0384			25
074528.93+294824.4	116.370552	29.806799	0.4003	889	52663	179	104.096			19
075502.11+220346.8	118.75882	22.063013	0.3997	1264	52707	204	85.1139		-	14
075651.50+321007.6	119.2146	32.168797	0.3999	890	52583	557	189.36			22
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The catalog:

- 71250 sources from SDSS–DR7 Type 1 QSO catalog;
- display each source on the website;
- download the whole catalog as a FITS file;

Applications:

- black hole mass estimates through AD modeling;
- comparison of different galaxy templates;
- comparison of emission line models;
- analysis of new data;

- Paper (MNRAS submitted): https://arxiv.org/abs/1612.01580
- QSFit website: http://qsfit.inaf.it/
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