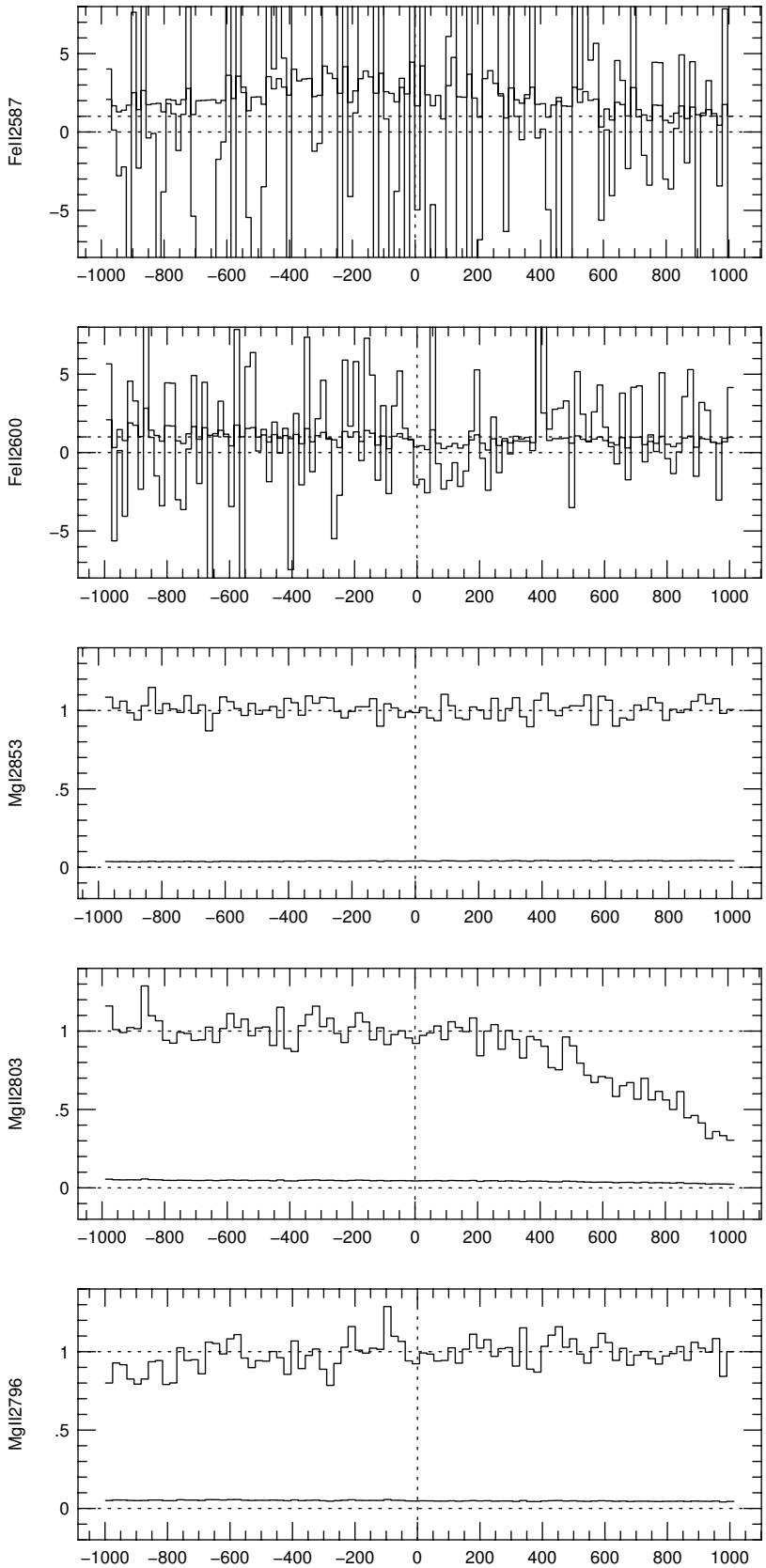z_gal=0.139275668