

THE BARRED GALAXY NGC 7741

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The type of this galaxy (SB(s)cd) is intermediate between symmetrical early type galaxies and asymmetric late-type barred spirals. Three different components are clearly seen: a bar (B), a central disk (c) and an extended disk (d).

The centre of the central disk is approximately coincident with the centre of the stellar continuum detected in the bar but does not correspond with the geometrical centre of the bar (Fig. 1).

The interior of the central disk is bordered by an oval distribution of HII regions (Fig. 4).

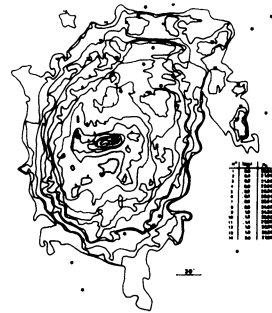
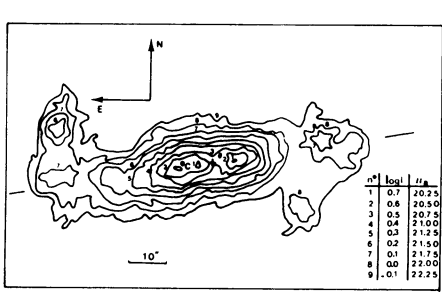


Fig. 1. +: stellar continuum centre  
 C: geometrical centre

Fig. 2. isophotal map in blue light

From a surface photometry study in blue light (Fig. 2), we derive the geometrical parameters of the different components:

	position of the major axis	$\langle b/a \rangle = q$
bar	$98^\circ \pm 2^\circ \text{E}$	$0.30 \pm 0.02$
central disk	$160^\circ \pm 3^\circ \text{E}$	$0.71 \pm 0.03$
extended disk	$160^\circ \pm 5^\circ \text{E}$	$0.68 \pm 0.03$

and their intrinsic luminosity distribution:

