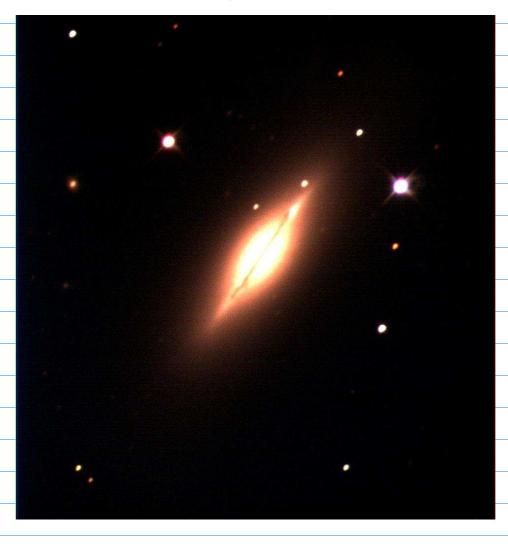
THE MASSES OF ELLIPTICAL GARAXIES WARY FROM 10% OF THE MASS OF THE MILKY WAY UP TO 10 OR 100 TIMES THE MASS OF OUR GARAXY.

SPIRAL GAMAXIES (S):

SØ (OR LENTICULAR) GALAXIES:



THEY HAVE A VERY LARGE NUCLEUS AND HARDLY VISIBLE SPIRAL ARMS.

Sa GAGAXÍES:



THESE OPHAXIES HAVE LARGE NUCLEI, LESS
GAS AND DUST AND FEWER HOT LUMINOUS YOUNGSTARS COMPARED TO SIS AND SC.

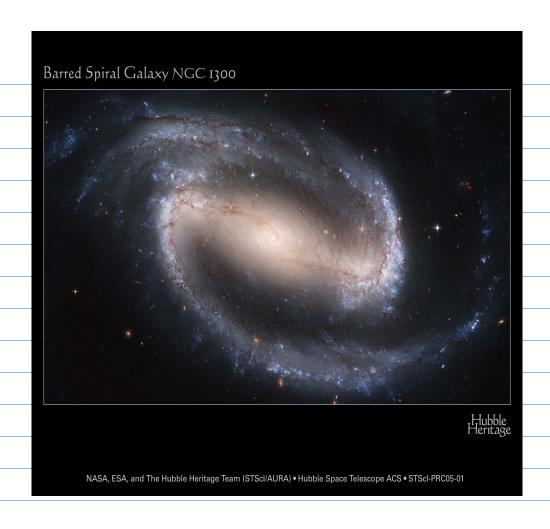
Sc GMAXIES:

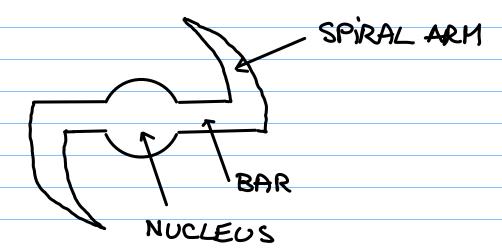
THESE GALAXIES HAVE SMALL MUCLEI, LOTS OF GAS AND DUST CONCENTRATED IN SPIRAL ARMS, AND MANY HOT, LUMINOUS, YOUNG STARS LOCATED IN SPIRAL ARMS. HENCE THEY APPEAR BLUISH IN COLOR.



Sh galaxies are between Sq and Sc according to the size of the nucleus, amount of gas and fust, and the number of hot, bright stars.

ABOUT 2/3 OF SPIRAL GALAXIES ARE SO-CALLD BARRED SPIRAL GALAXIES (SB). THEY ARE DIVIDED INTO SBQ, SBD AND SBC ACCORDING TO THE SAME CRITERIA USED FOR ORDINARY SPIRALS.



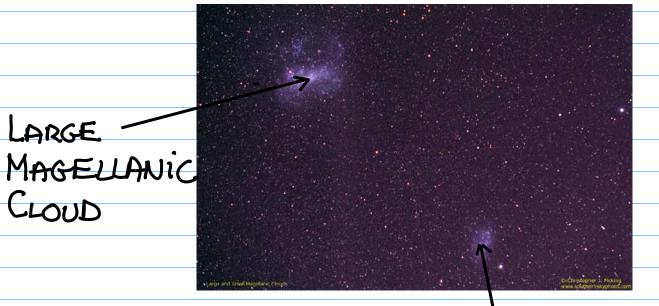


IRREGULAR GALAXIES (IM):

THESE GALAXIES ARE A CHAOTIC MIX OF GAS AND DUST WITH NO OBVIOUS NUCLEUS AND SPIRAL ARMS:



irregular Gabaxy I Zwicky 18



SMALL MAGELLANIC CLOUD

THEY BELONG TO THE LOOK GROUP (A GALAXY CLUSTER WHICH CONTAINS THE MILKY WAY). ELLIPTIONL GAMAXIES ACCOUNT FOR ABOUT 1/3 OF THE CAMAXIES THAT WE OBSERVE.

Spiral GALAXIES HAVE UP THE HATORITY OF BRIGHTER GALAXIES THAT WE OBSERVE.

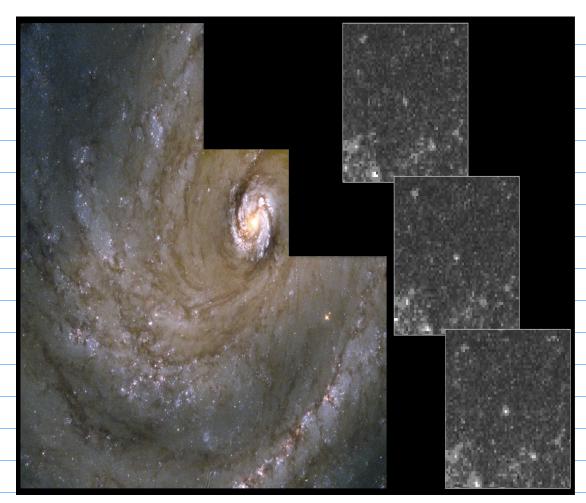
THE IDDEGULAR GATAXIES ARE SMALL AND
THEREFORE NOT VERY LUMINOUS, AND ARE
HARDER TO OBSERVE AT LARGE DISTANCES.
HOWEVER, THEY COULD BE THE MOST COMMON
TYPE OF CALAXY.

MEASURING THE DISTANCES TO GACAXIES:

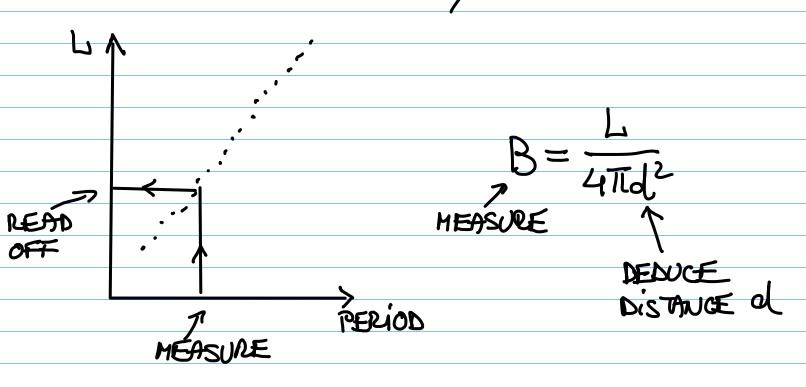
EVEN THOSE THAT ARE CLOSEST TO US (E.G. THE LARGE MAGELLANIC CLOUD) ARE DISTANT ENOUGH (170,000 Lg.) THAT THE METHOD OF STELLAR PARKLAX WOULD FAIL.

1) FOR GALAXIES THAT ARE NOT TOO DISTANT ASTRONOMER USE THE HETHOD OF CEPHEID VARIABLES, USING THE PERIOD - WHINDSITY

RELATION FOR SUCH STARS.



SPIRAL GALAXY MIDO



THIS HETHOD WORKS FOR THE DISTANCES UP TO

