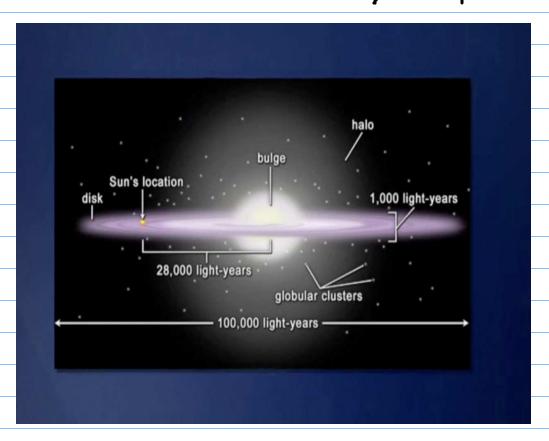
## THE CONTENT OF THE MILKY WAY:



DISK: STARS, STAR CLUSTERS, GAS AND DUST

Associations; clusters OF 10-100 YOUNG, HOT (O-AND B-CAS) 100-1000 STARS, LUMINOUS STARS

CLUSTERS OF WHICH ARE ALSO

OPEN CLUSTERS:

HOT AND LUMINOUS



OPEN CLUSTER M 45

HALO; STARS (COOLER LOWER MAIN JEQUENCE STARS), GLOBULAR CLUSTERS AND NO GAS AND DUET

BULGE: STARS ARE SIMILAR TO THOSE IN THE
HALO, BUT THERE ARE ALSO SOME
HOT AND LUMINOUS STARS.

THE MATERIAL IN THE DISK IS NOT DISTRIBUTED UNIFORMLY BUT IS CONCENTRATED IN SPIRAL ARMS. HOW DO WE KNOW THAT SINCE THE GAS AND THE DUST BLOCK OUR VEW?



360° VIEW ALONG THE PLANE OF THE MILKY WAY

WHEN WE LOOK AT OTHER SPIRAL GALAXIES WE

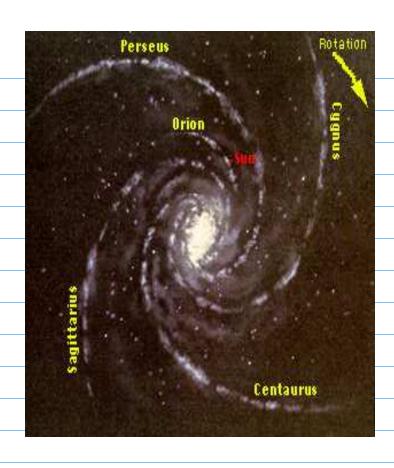


GALAXY MIDO

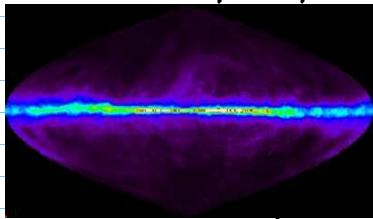
OBSERVE THAT THEIR SPIRAL ARMS ARE OUTLINED BY THE ASSOCIATIONS AND OPEN CLUSTERS OF HOT (AND THEREFORE BLUE) LUMINOUS STARS.

THEREFORE, ONE
SHOULD LOOK FOR
SUCH CLUSTERS OF
HOT AND LUMINOUS
STARS IN THE KILKY
WAY.

RESULTS:



THE ASTRONOMERS CAN ALSO EXAMINE THE DISTRIBUTION OF GAS AND DUST IN THE MILKY WAY BY DETECTING THE MADIO WAVES ENTITED BY THE CLOUDS OF GAS AND DUST. RESULTS:
GAS AND DUST ARE ALSO CONCENTRATED IN THE SPIRAL ADMS OF THE MILKY WAY:



ALL SKY VIEW AT 21 cm. RADIO WAVES

PRODUCED By COOL CLOUPS OF NEUTOAL HYDROGEN.

THE DISK STARS DIFFER FROM THOSE IN THE HALD AND THE BULGE BY THEIR CONTENT OF ELEMENTS HEAVIER THAN HE (SO - ONLED METALS)

DISK STARS: POPULATION I STARS, WHICH HAVE
HIGHER CONTENT OF METALS (2-3%)

HALD AND BULGE: POPULATION IT STARS - THEY

HAVE A LOWER CONCENTRATION

OF HETALS (0.1%)