## Treasure Hunt

## Rules

- 5 questions
- 4 Q 8 minutes + 1Q 10 minutes
- Answer revealed after each question.
- Scoring:
- 1 point if you have the right answer for Q1, Q2, Q3 \& Q4
- 2 points for Q5.
- 1 extra point if you are the first finding the answer to any question

PRIZES!

## Question \# 1

How many nova are there within 2' around the center of M31?

## coord 004244.330 +41 1607.50 (FK5, 2000, 2000), radius: 2 arcmin

| other query modes: | Identifier query | Coordinate query | Criteria query | Reference query | Basic query | Script submission | TAP | Output options |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |

Query : coord $004244.330+411607.50$ (FK5, 2000, 2000), radius: 2 arcmin
C.D.S. - SIMBAD4 rel 1.5.10-2016.11.16CET12:01:25

Number of rows : 458 Plot
No


## Question \#2

Perform a colour-magnitude (Ks versus (u-g)) diagram of sources detected within SDSS and 2MASS catalogues around 15' of the center of NGC2129.


## Question \#3

How many Scuba submillimiter continuum detections are covered by the CGPS-VGPS HI Gas-lines image survey?

## Answer \#3

 the

|  | Properties of the plane "CDS/J/ApJS/175/277/maps by ... |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $3 / 2$ | PlaneID: | (pJS/175/277/maps by MOC |  |  |  |  |  |
| $3 / 2$ |  |  |  |  |  |  |  |
| $\rightarrow 3 \mid$ | Color: |  |  |  |  |  |  |
| ApJS | Default shape: |  | mall cir | cle |  |  |  |
| MNRA | Source: | 304 |  |  |  |  |  |
| S8 | Table information: |  | Colum | info | rmati | on... |  |
|  | Scaling factor |  | $\begin{array}{ll} 1 & 1 \\ 50 & 10 \end{array}$ | 15 | $21$ | $\begin{gathered} 1 \\ 250 \end{gathered}$ |  |
|  | Overlay opacity/transparency |  | 1 20 | 1 40 | 1 60 | 1 | 100 |
|  | Apply |  | Clos |  |  |  |  |



## Question \#4

Does HD142666 show infrared excess?
Can the star be placed at a distance of 10 pc ?

## Answer \#4

## Does HD142666 show infrared excess?

Can the star be placed at a distance of 10 pc ?


## Question \#5

There are probably 2 white dwarfs moving with the pleiades. Find their positions.
use ADQL
hint: assume average parallax is 7 mas

