## Selection of Isochrones for the QC phase of iDR5

Cluster parameters have been selected using recent literature, starting from eventual GES papers and GES reports (from the WG4 wiki page). Parameters of Globular clusters have been obtained from the WG15 report.

For the QC phase we provide: Parsec isochrones for clusters older that 0.1 Myr and Siess isochrones for younger clusters. For clusters around 100 Myr we provide both Parsec and Siess isochrones (NGC2516 in the QC phase).

The isochrones have been extracted for the ages and metallicity shown in the excel table.

The Parsec isochrones were retrieved from:

<http://stev.oapd.inaf.it/cgi-bin/cmd>

The Siess isochrones were obtained from:

<http://www.astro.ulb.ac.be/~siess/pmwiki/pmwiki.php/WWWTools/Plots>

## The isochrones for each cluster are named as:

## CLUSTER\_ISOCHRONETYPE\_OTHERINFO.txt'

Where isochrones-type can be Parsec or Siess, and Otherinfo contains the adopted age and metallicity (expressed in the Z form, by mass).

To convert the Luminosity in gravity in the Siess isochrones:

Iso\_s=’NGC2264\_Siess\_3Myr\_Z0.01.dat’

readcol, Iso\_s, st, l, r, Te, mass, format='a,d,d,d,d,d', skipline=11

g=ALOG10(mass)-ALOG10(r^2)+4.44

To read Parsec isochrones:

Iso\_p= 'NGC2243\_Parsec\_4.5Gyr\_Z0.004.dat'

readcol, Iso\_p, z,time,mass,m\_act,L,Te,g, format='d,d,d,d,d,d,d', skipline=14

Te=10^Te

A idl program (read\_iso.pro) is also provided as an example to convert Parsec and Siess in the same format.