

# Creation of a radial brightness profile

The program ds9 can be used to create a radial brightness profile. In the following two possibilities will be described:

## Projection tool

1. Open the FITS file
2. Click on projection tool in *Region > Shape > Projection*
3. Mark the line at which the radial profile shall be created
4. In the popup window projection save the profile either as data table via *File > Save Data as* a \*.dat file or alternative export the radial profile from the diagram window as a PostScript image via *File > Postscript Print*.
5. Use gnuplot, tikz, pgfplots, WRplot, or alike (Excel would work, too) to create the profile

## Line

1. Open the fits file
2. Change line in *Region > Shape*
3. Mark the line at which the radial profile shall be created
4. Double-click the line
5. In the popup window create the profile in *Analysis > 2D Plot*
6. In the popup window projection save the profile, either as data table: *File > Save Data as* \*.dat file; alternative export from the diagram window as PostScript image: *File > Postscript Print*.
7. Use gnuplot, tikz, pgfplots, WRplot or alike (Excel would work, too) to create the profile

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