## 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. Click on line in Region > Shape
- 3. Mark the line at which the radial profile shall be created
- 4. Double-click on the line
- 5. In the popup window create the profile via 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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