Appendix A

System Efficiency

A.1 Efficiency of the Optical System

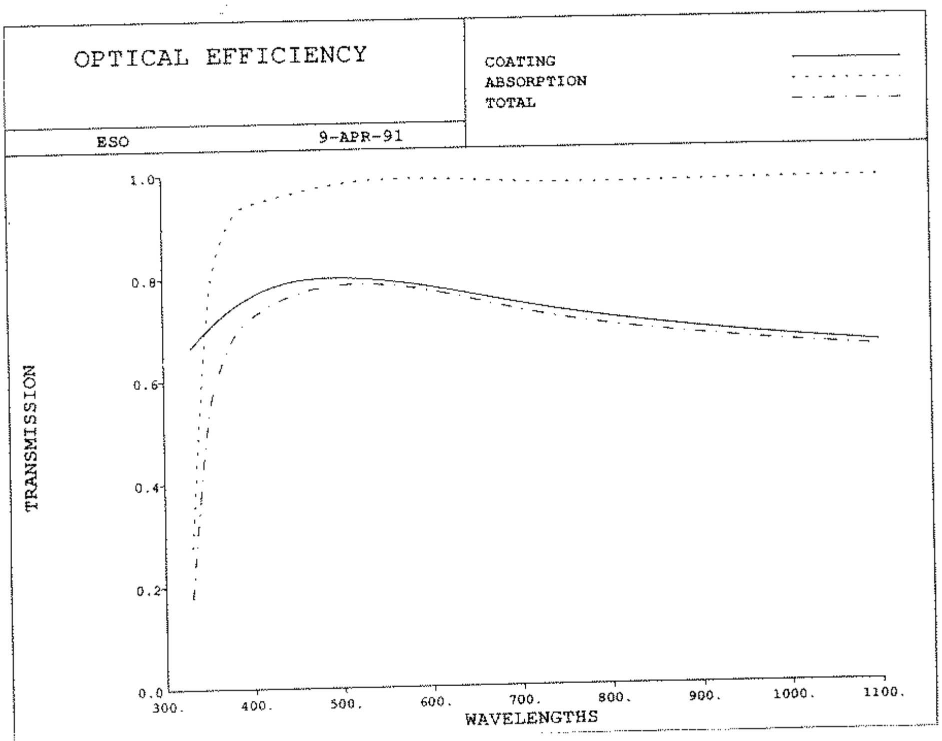

Figure A.1: The computed efficiency curve for the DFOSC collimator and camera. The CCD field lens has not been included in this computation.

A.2 Grism Efficiencies

The grism efficiencies have been measured by B. Buzzoni using the the ESO universal spectrophotometer in the optical laboratory in Garching. The results are presented in the following figures. The measurement spot on the grating is around five by three millimeters.

These measurements were performed on the first batch of grisms, but should be very similar to the current set as the manufacturing recipe is exactly the same.

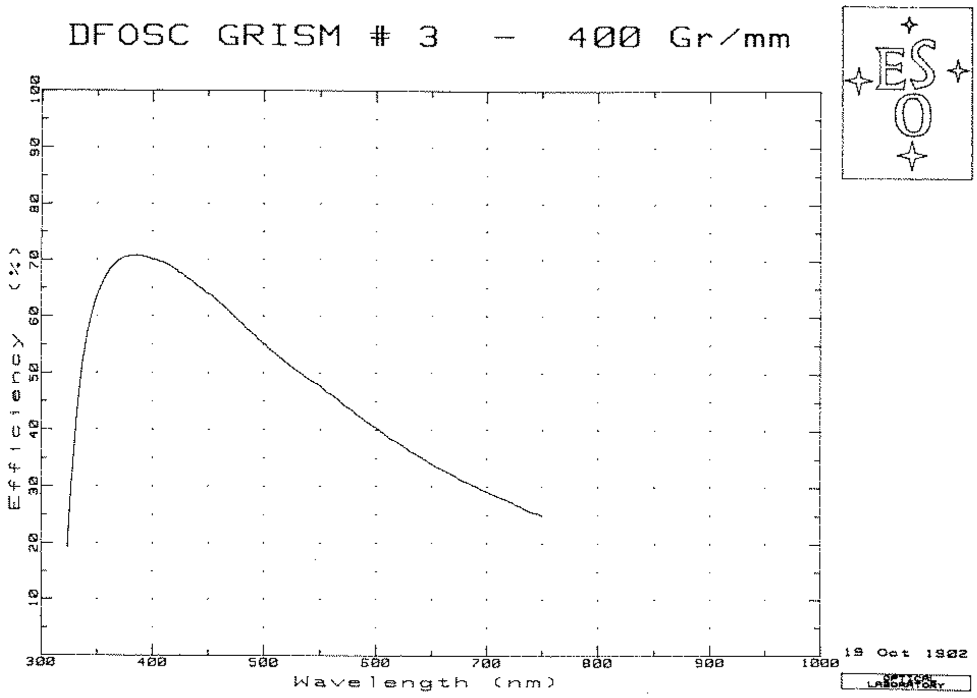

Figure A.2: The efficiency curve for Grism #3

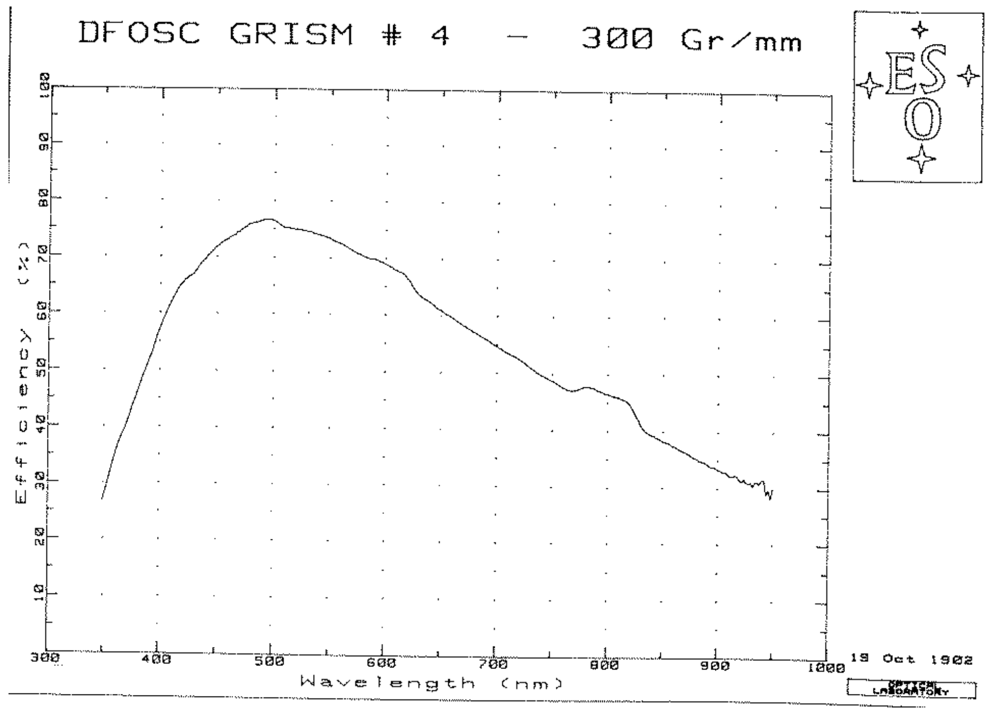

Figure A.3: The efficiency curve for Grism #4

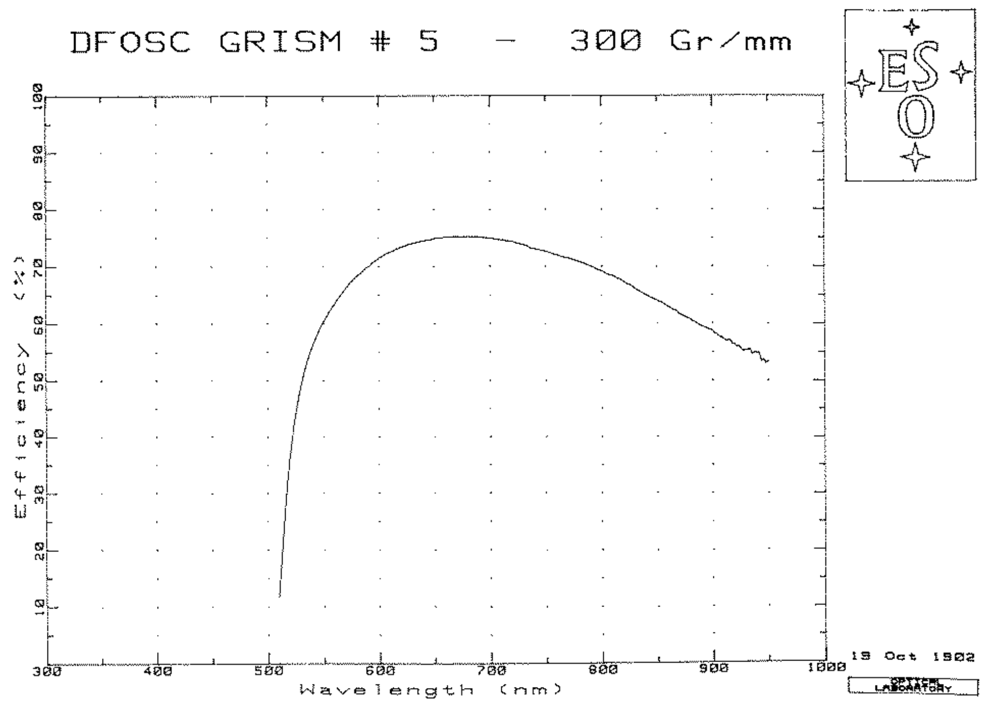

Figure A.4: The efficiency curve for Grism #5

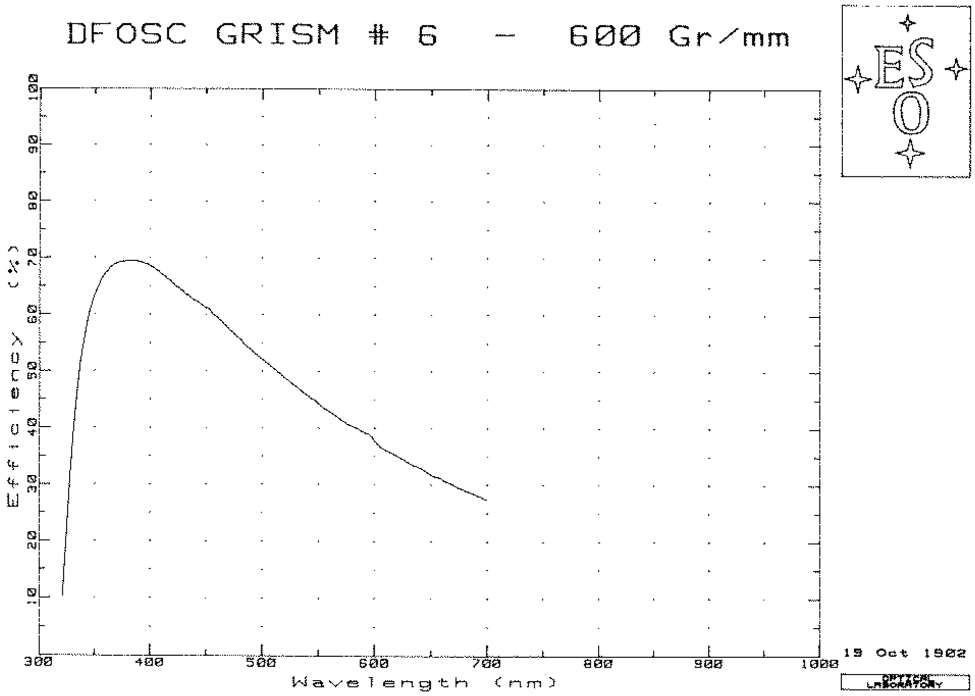

Figure A.5: The efficiency curve for Grism #6

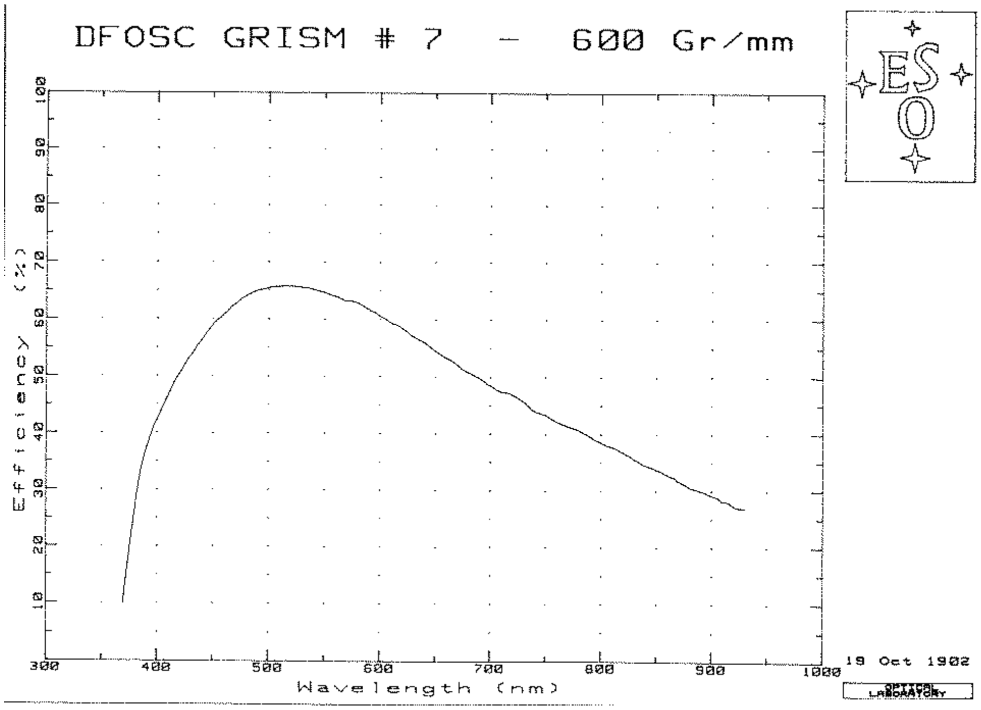

Figure A.6: The efficiency curve for Grism #7

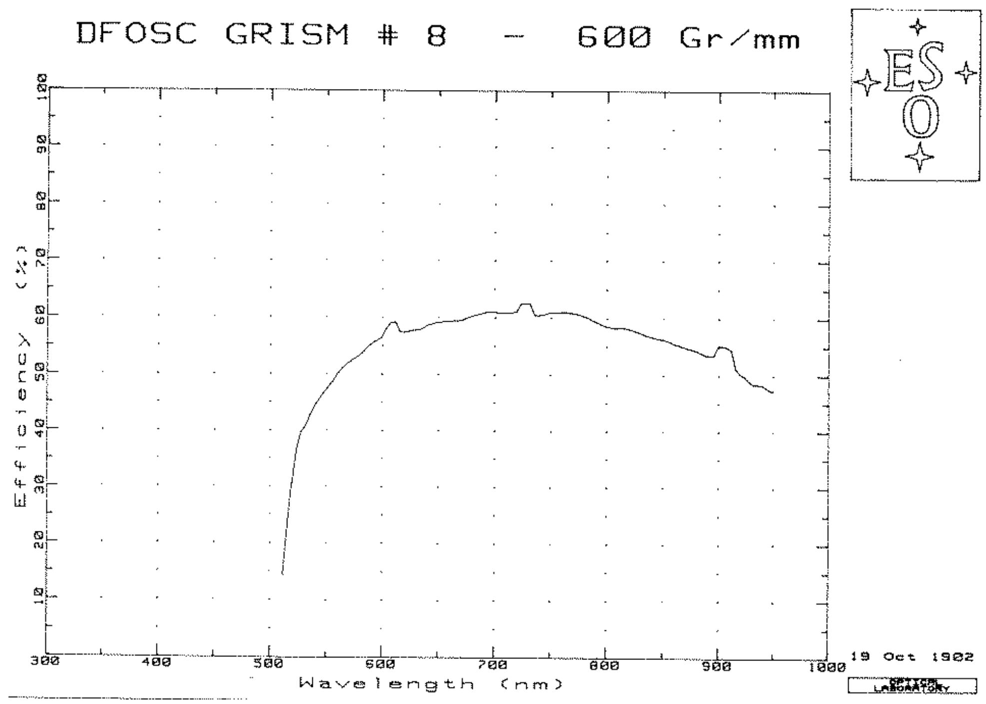

Figure A.7: The efficiency curve for Grism #8

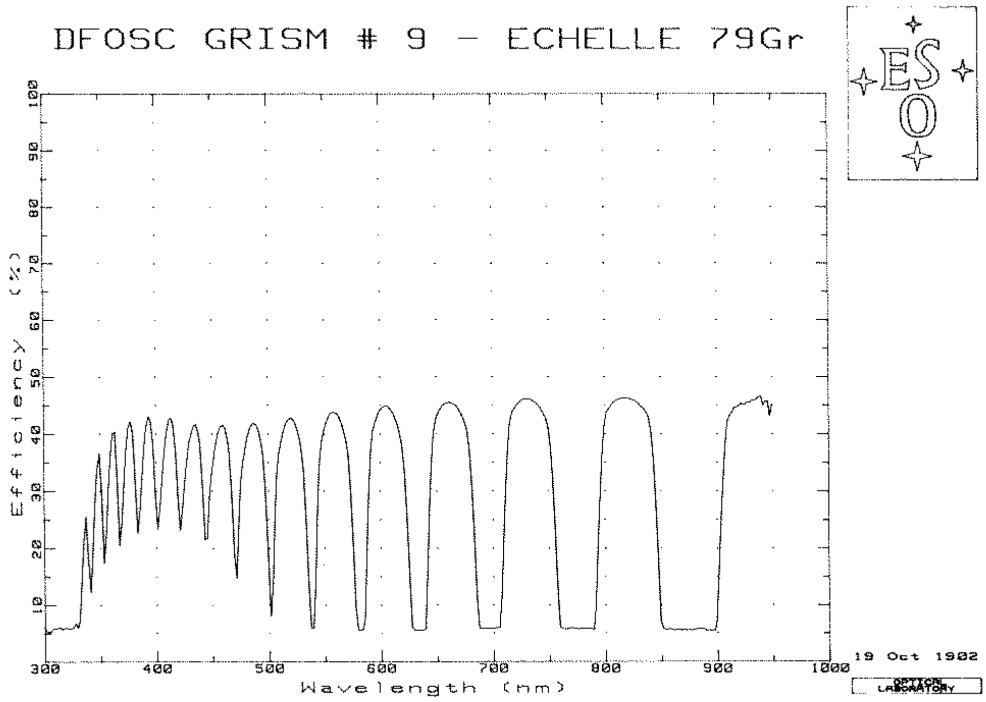

Figure A.8: The efficiency curve for Grism #9. The maxima of the curve represents the maximum efficiency of each of the orders.

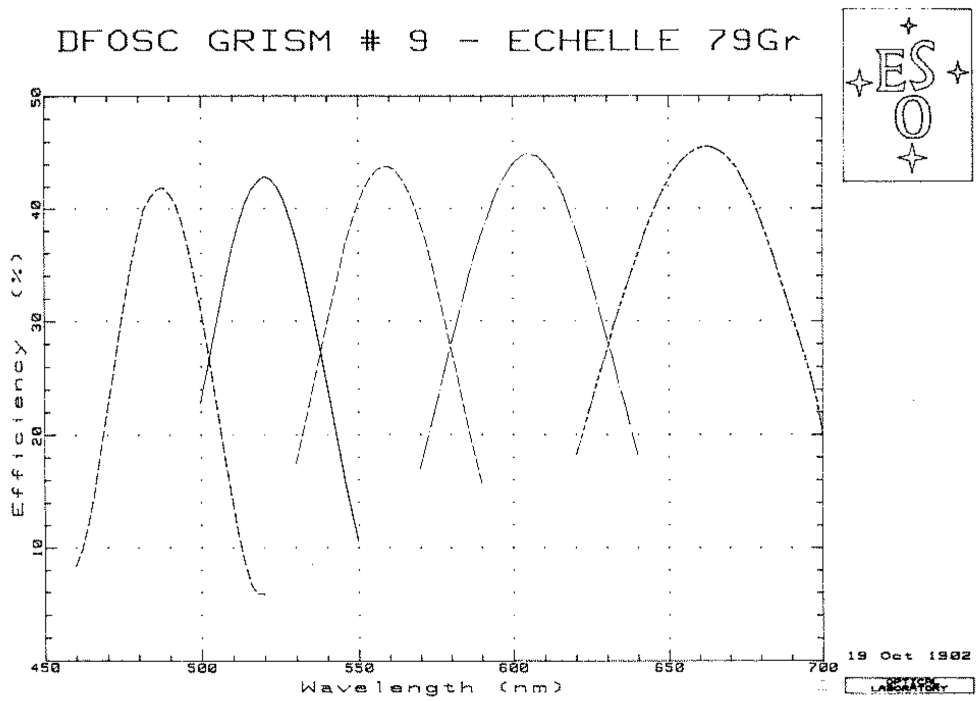

Figure A.9: The efficiency curve for Grism #9. The curves represents scans along five different orders and contains information about the relative efficiency within each order.

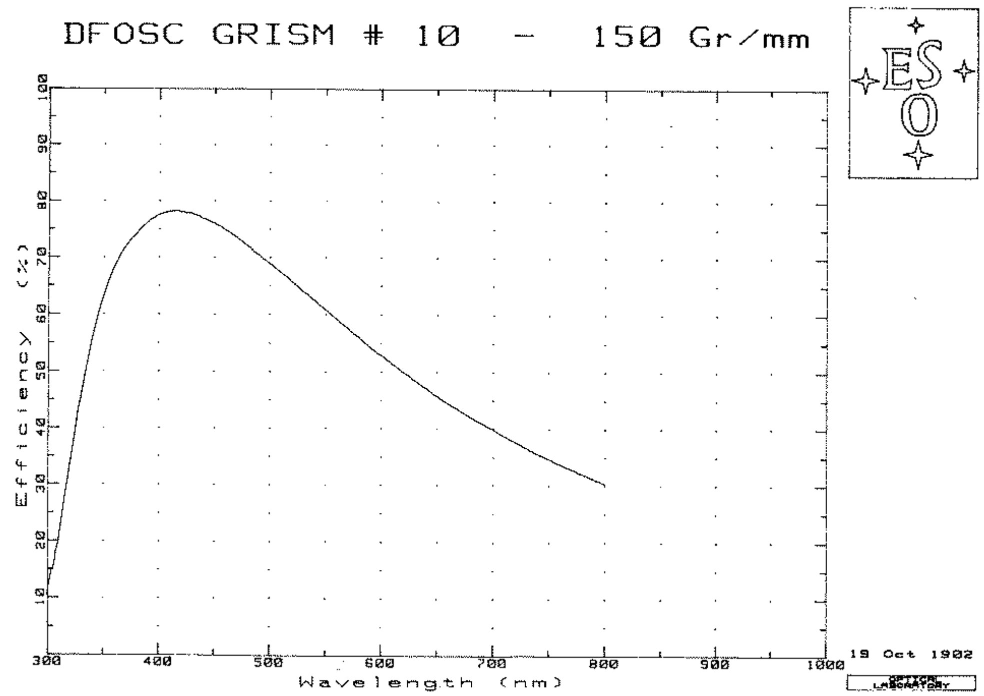

Figure A.10: The efficiency curve for Grism #10

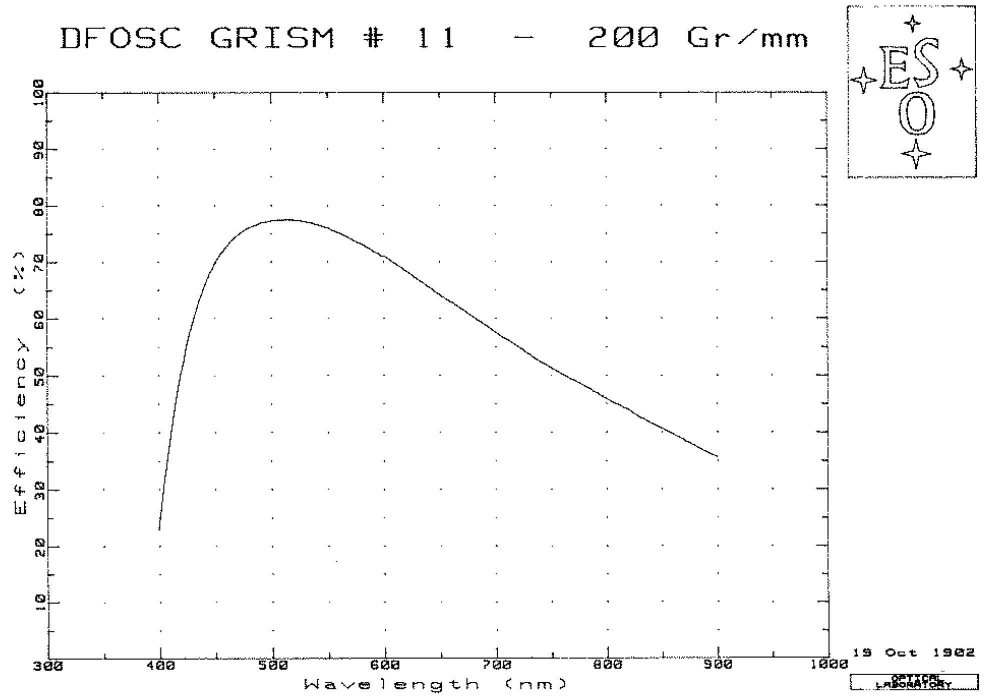

Figure A.11: The efficiency curve for Grism #11

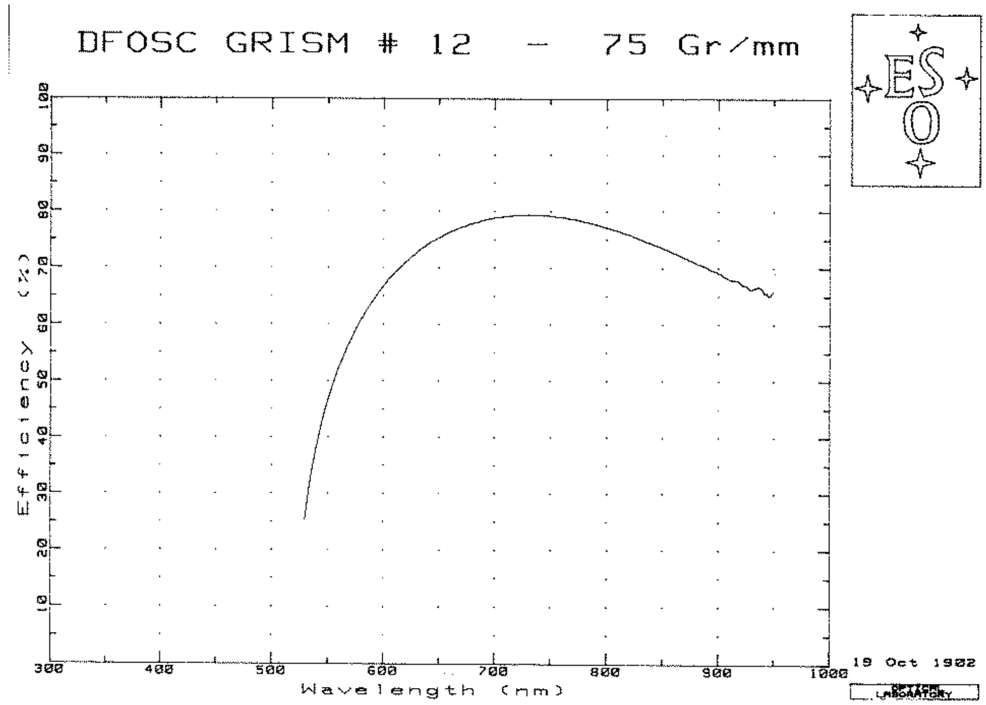

Figure A.12: The efficiency curve for Grism #12

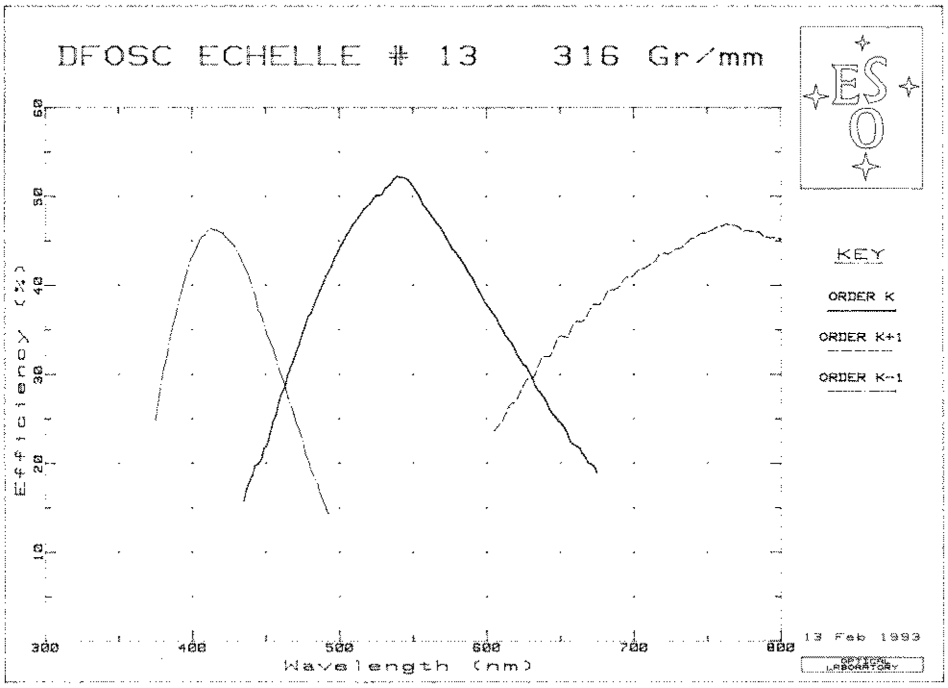

Figure A.13: The efficiency curve for Grism #13. The curves represents scans along three different orders (2,3 and 4) and contains information about the relative efficiency within each order.