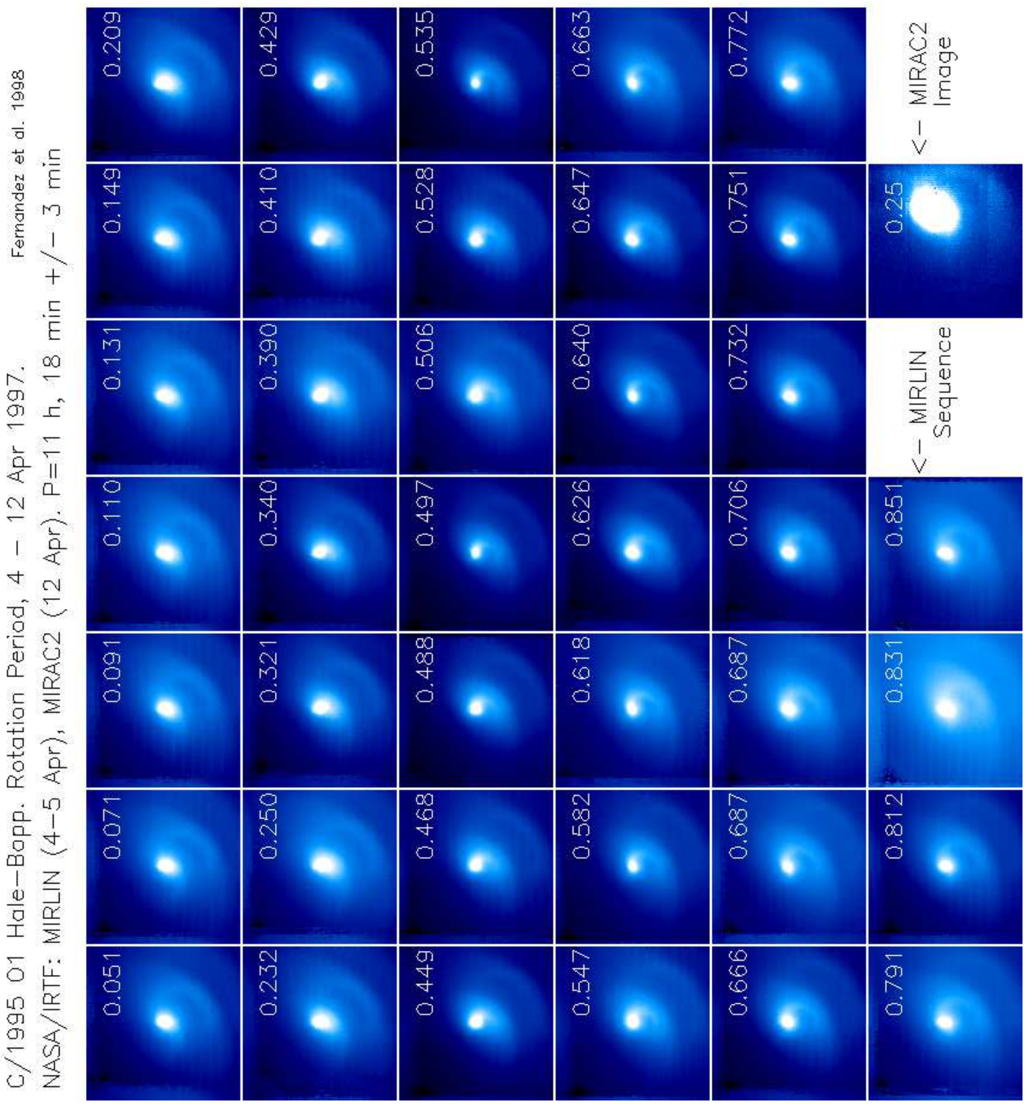
Figure 4.13 (next page): Rotation sequence of comet Hale-Bopp. Sequence of IRTF 10.3-μ images of the comet indicating its rotation period, taken during 4 to 12 Apr 1997. Two days of MIRLIN images were phased together to create the 39-image sequence. The rotational phase of the image is noted in white in each frame. About a week later, we obtained MIRAC images and were able to match the phase with the earlier sequence, as shown. The period is 11.3 $\pm$ 0.03 hr.


C/1995 O1 Hale–Bopp. Rotation Period, 4 – 12 Apr 1997.
NASA/IRTF: MIRLIN (4–5 Apr), MIRAC2 (12 Apr). P=11 h, 18 min +/– 3 min
Fernandez et al. 1998
0.051
0.071
0.091
0.110
0.131
0.149
0.209
0.232
0.250
0.321
0.340
0.390
0.410
0.429
0.449
0.468
0.488
0.497
0.506
0.528
0.535
0.547
0.582
0.618
0.626
0.640
0.647
0.663
0.666
0.687
0.687
0.706
0.732
0.751
0.772
0.791
0.812
0.831
0.851
<– MIRLIN Sequence
0.25
<– MIRAC2 Image