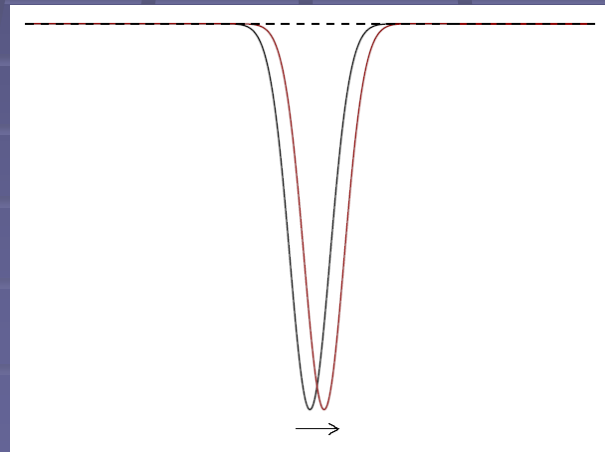


# 太陽のスペクトル

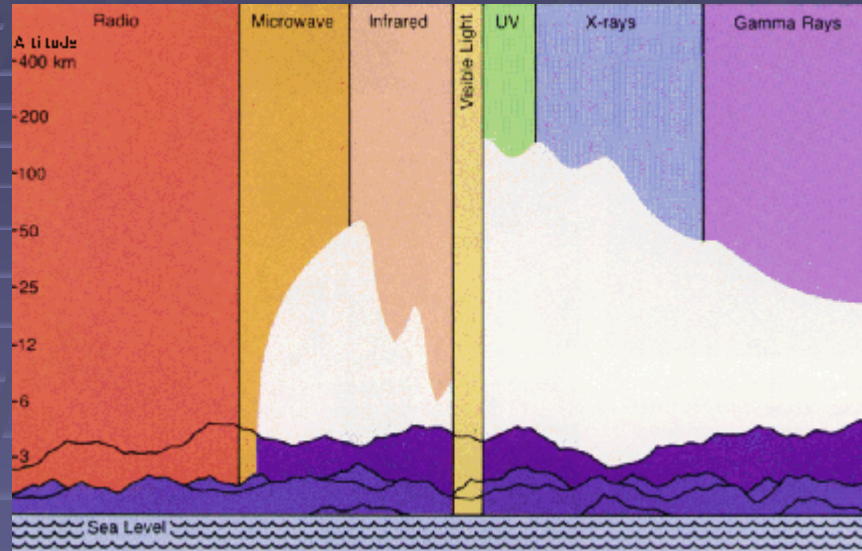


↑  
明るさ



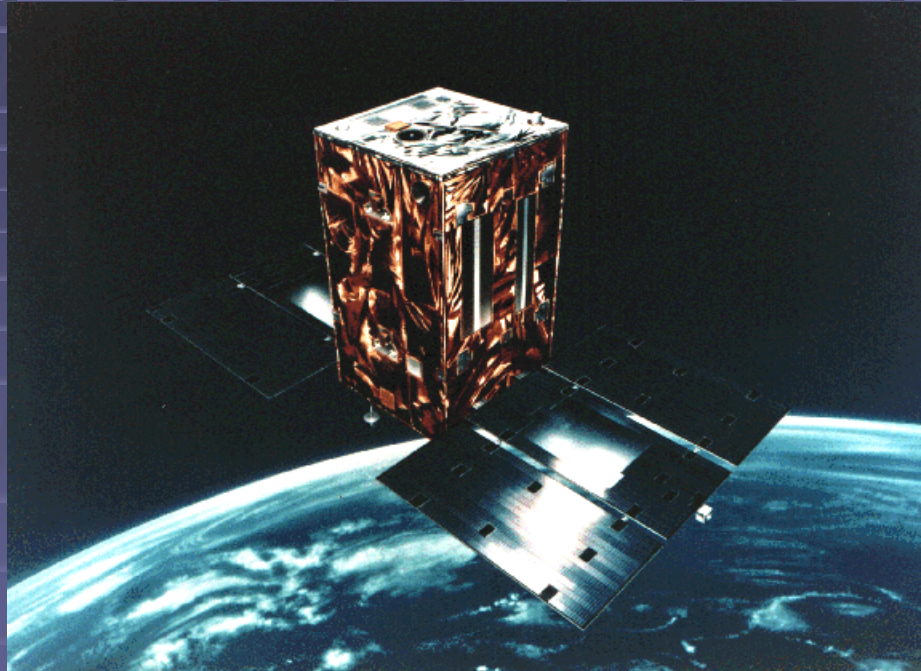
波長 →

# 地球大気の透明度



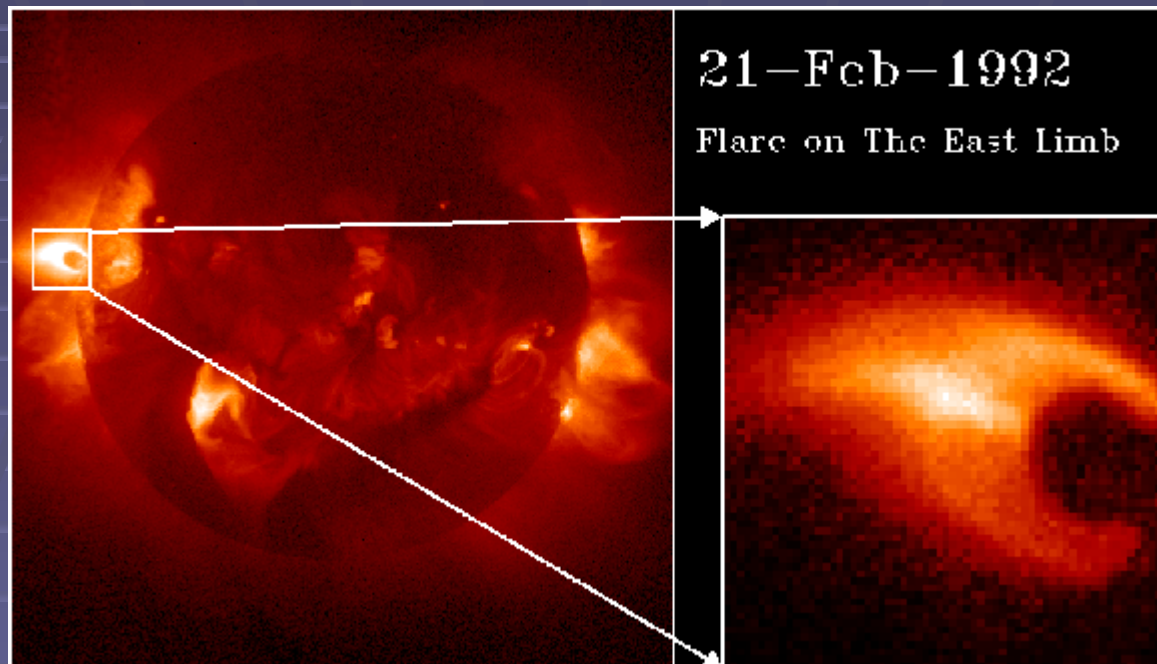
様々な波長の電磁波に対する地球大気の透明度

# ようこう(1/2)



軌道上のようこう(想像図)

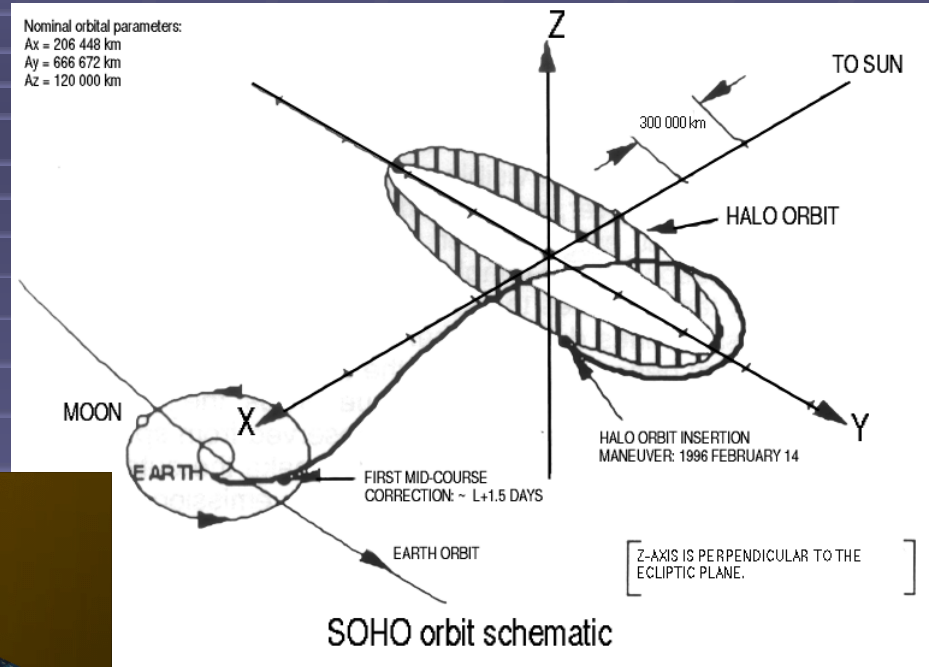
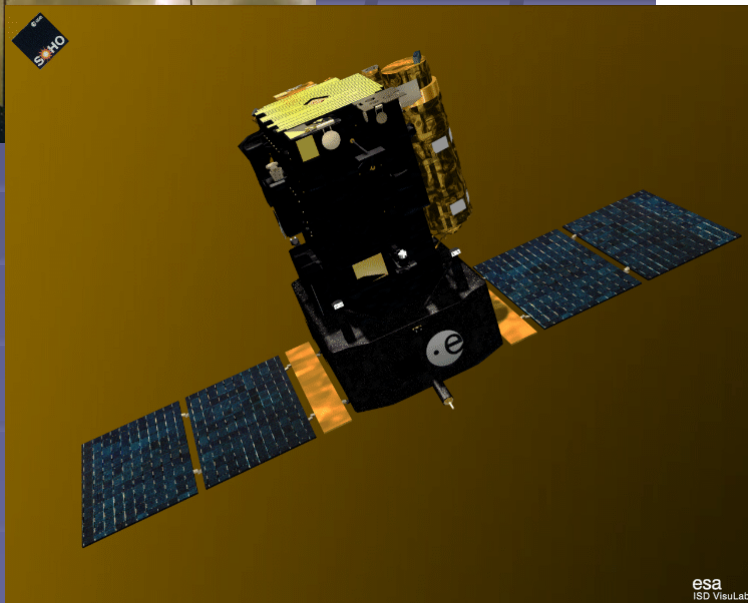
# ようこう(2/2)



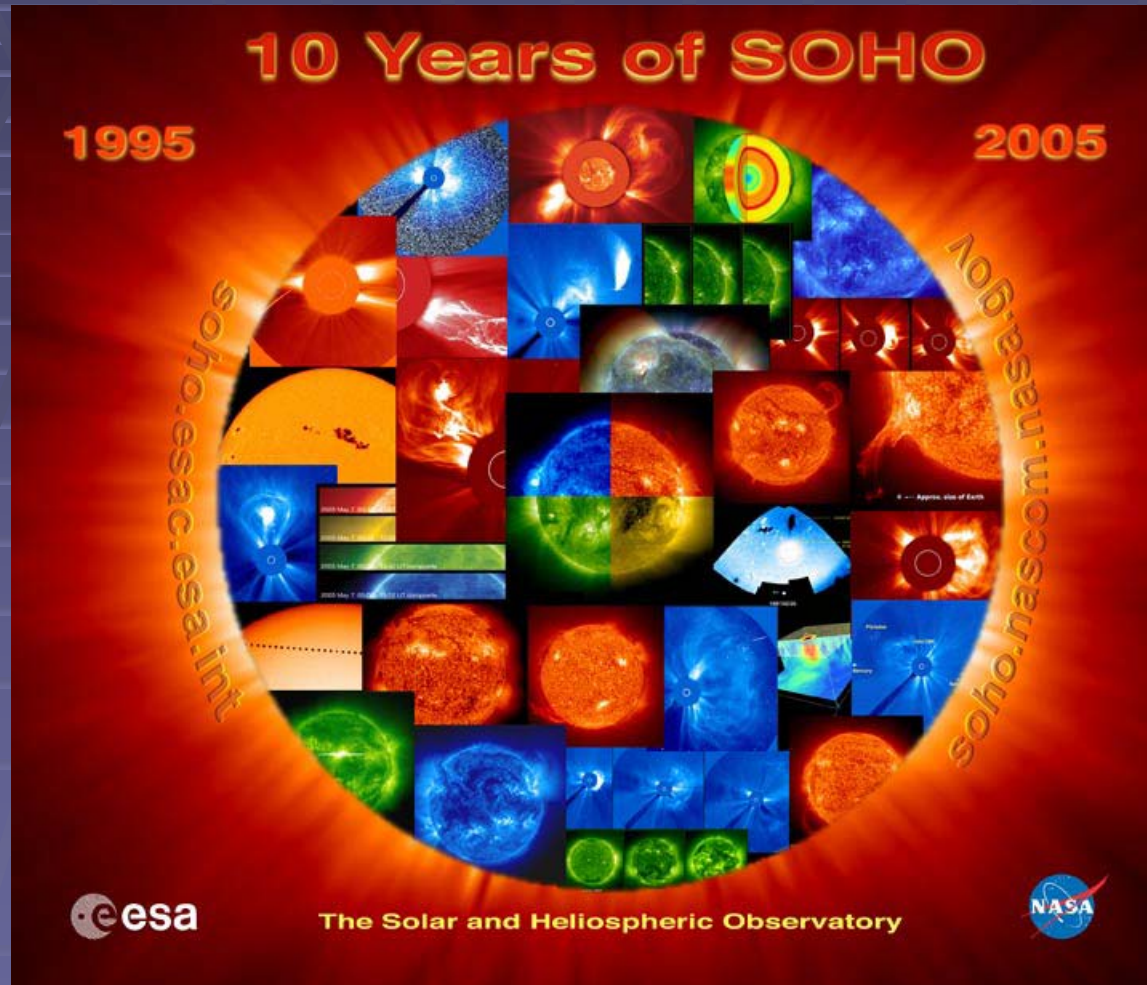
ようこうの観測したフレア(SXT)



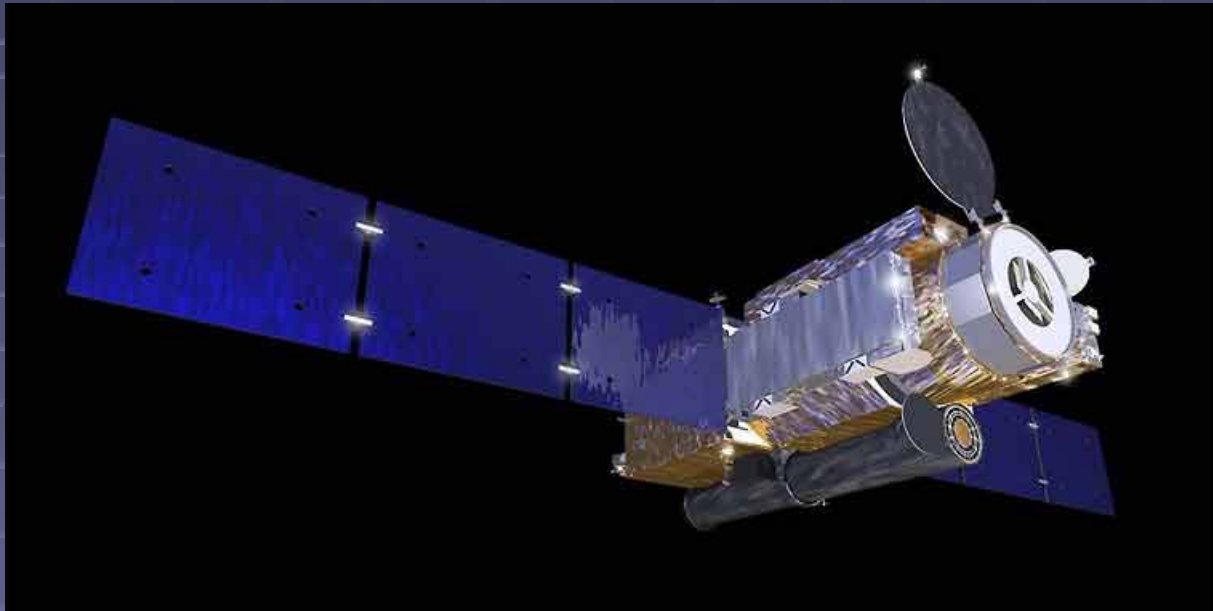
# SOHO (1/2)



# SOHO (2/2)



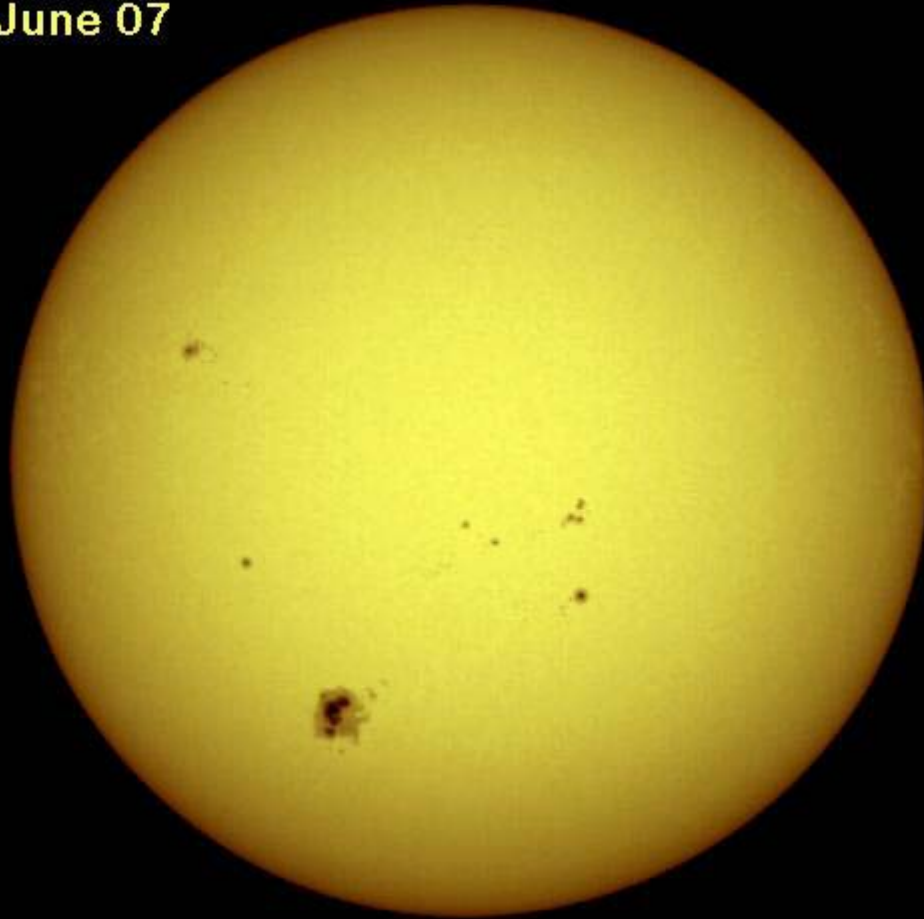
# 「ひので」



太陽観測衛星「ひので」

# 光球

1992 June 07



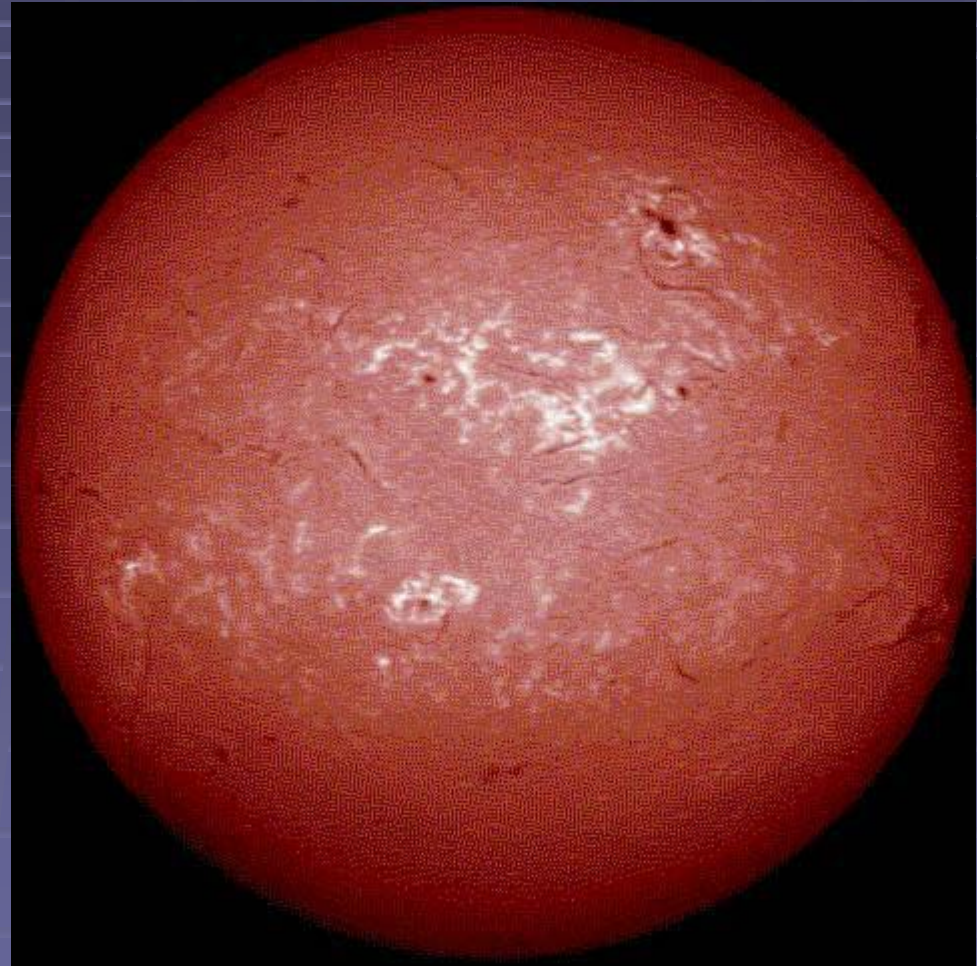


# 彩層



日食時の彩層

H $\alpha$ 線(653.6nm)でみた彩層



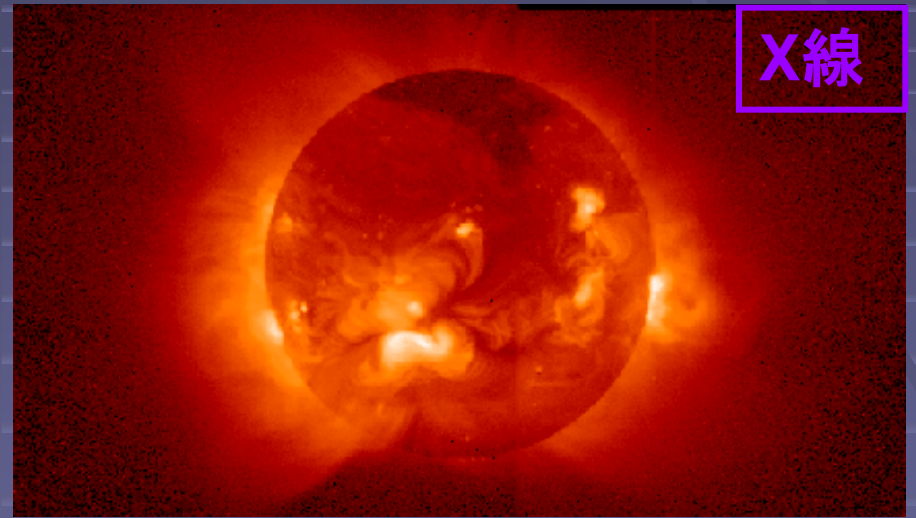


# コロナ

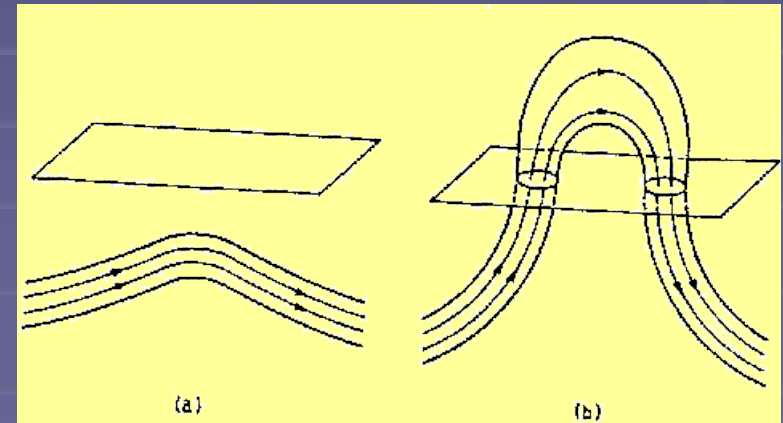
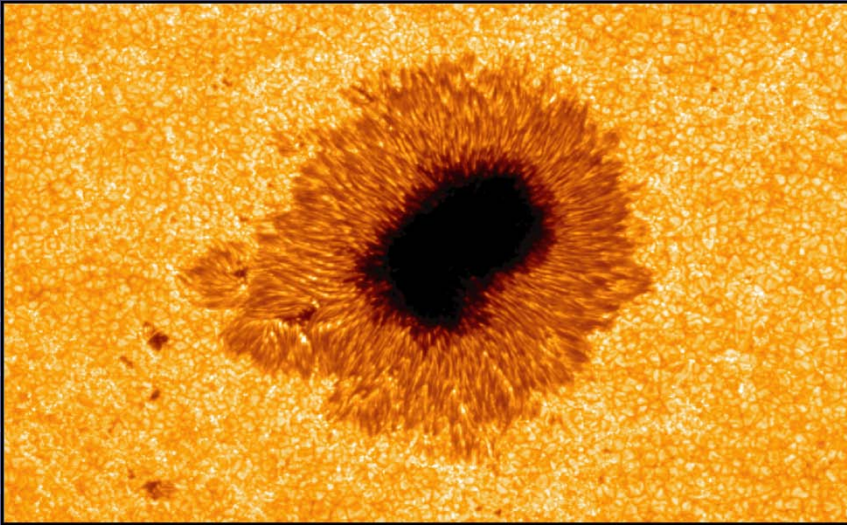
可視光(日食時)



X線

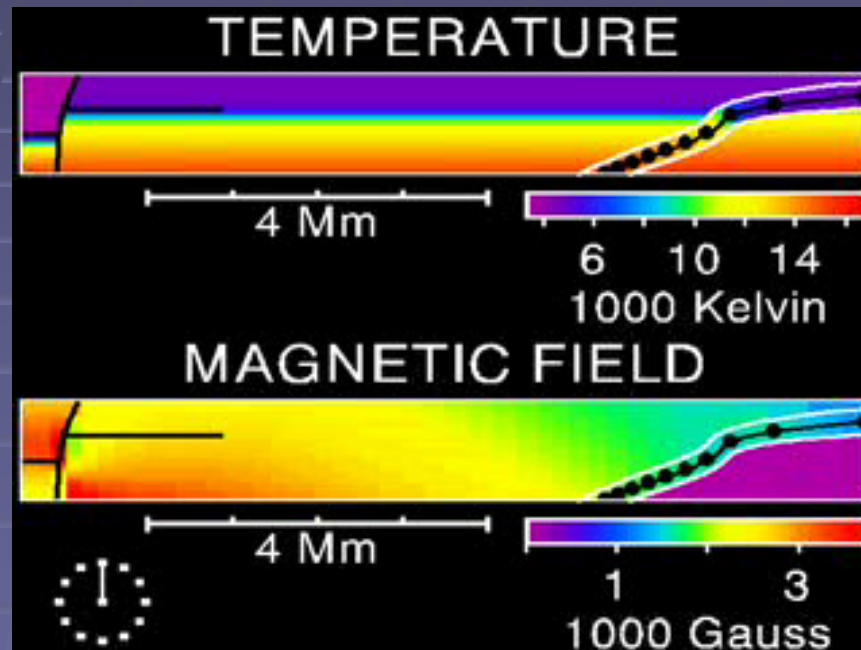


# 黒点とグラニュール

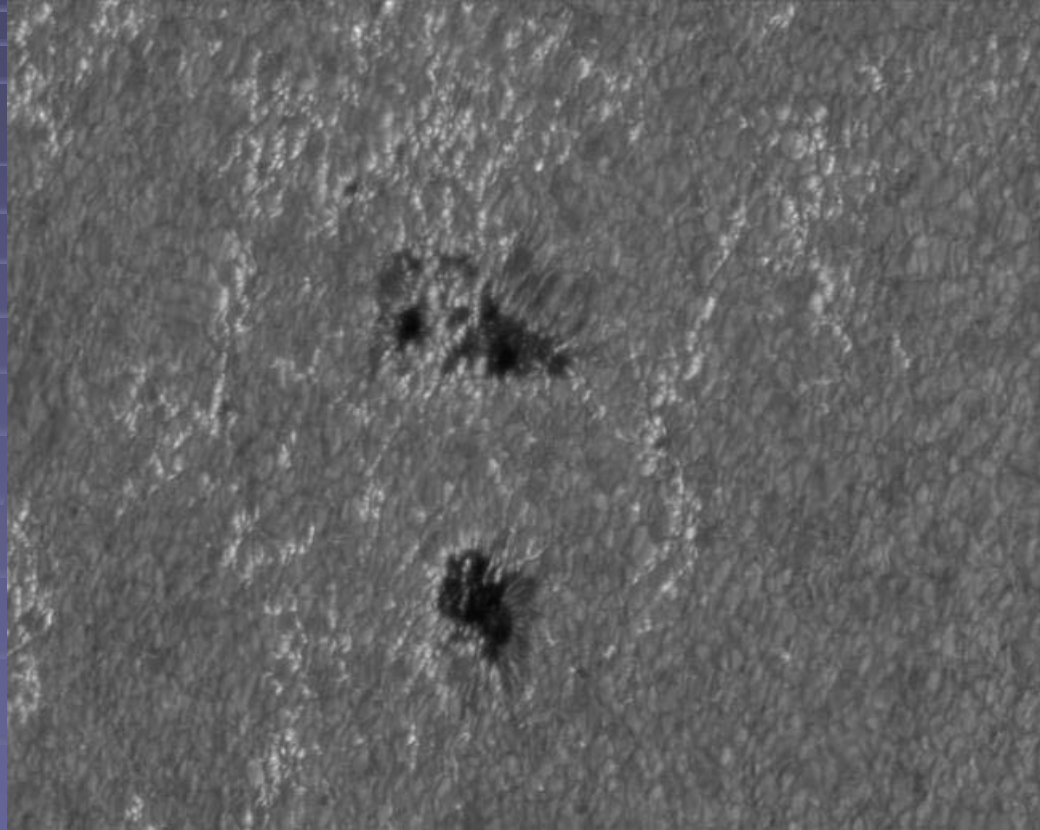


# Evershed流

- 数値シミュレーション (Schlichenmaier)



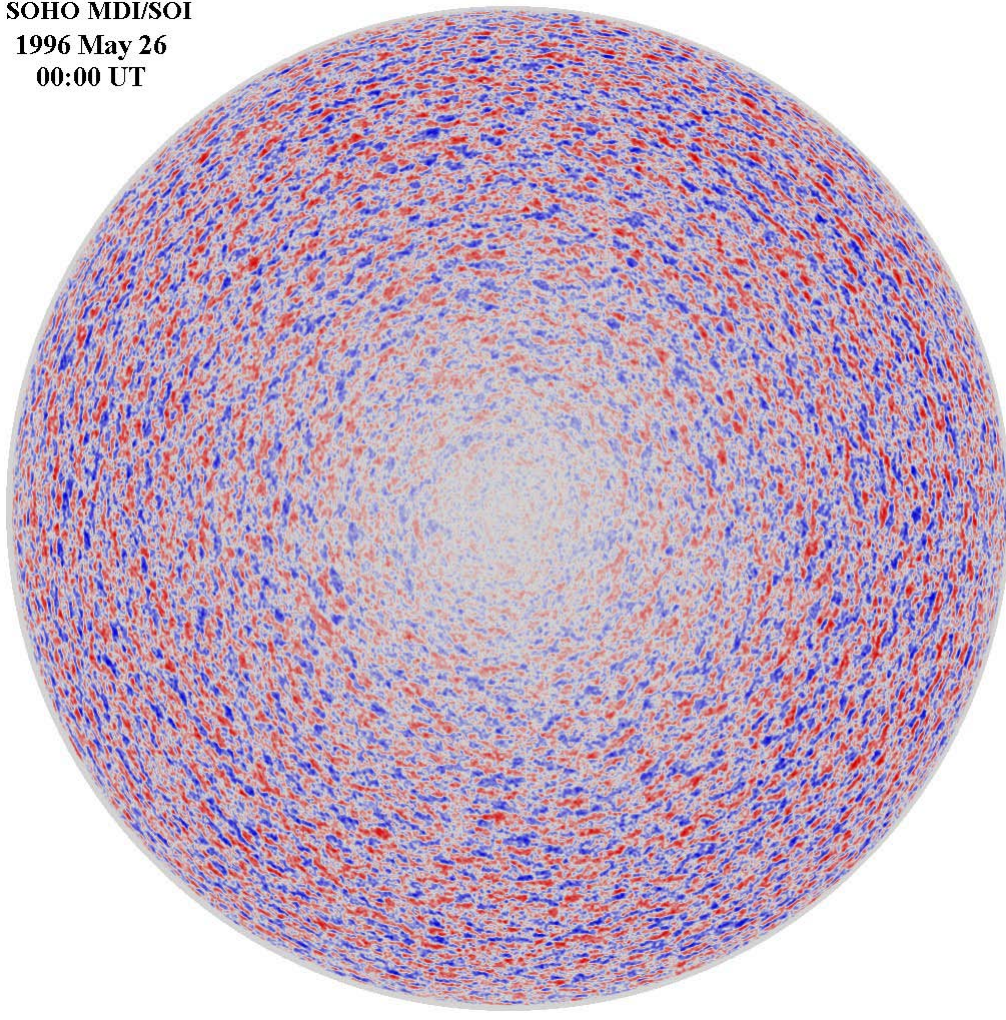
# 白斑





# 超粒状斑

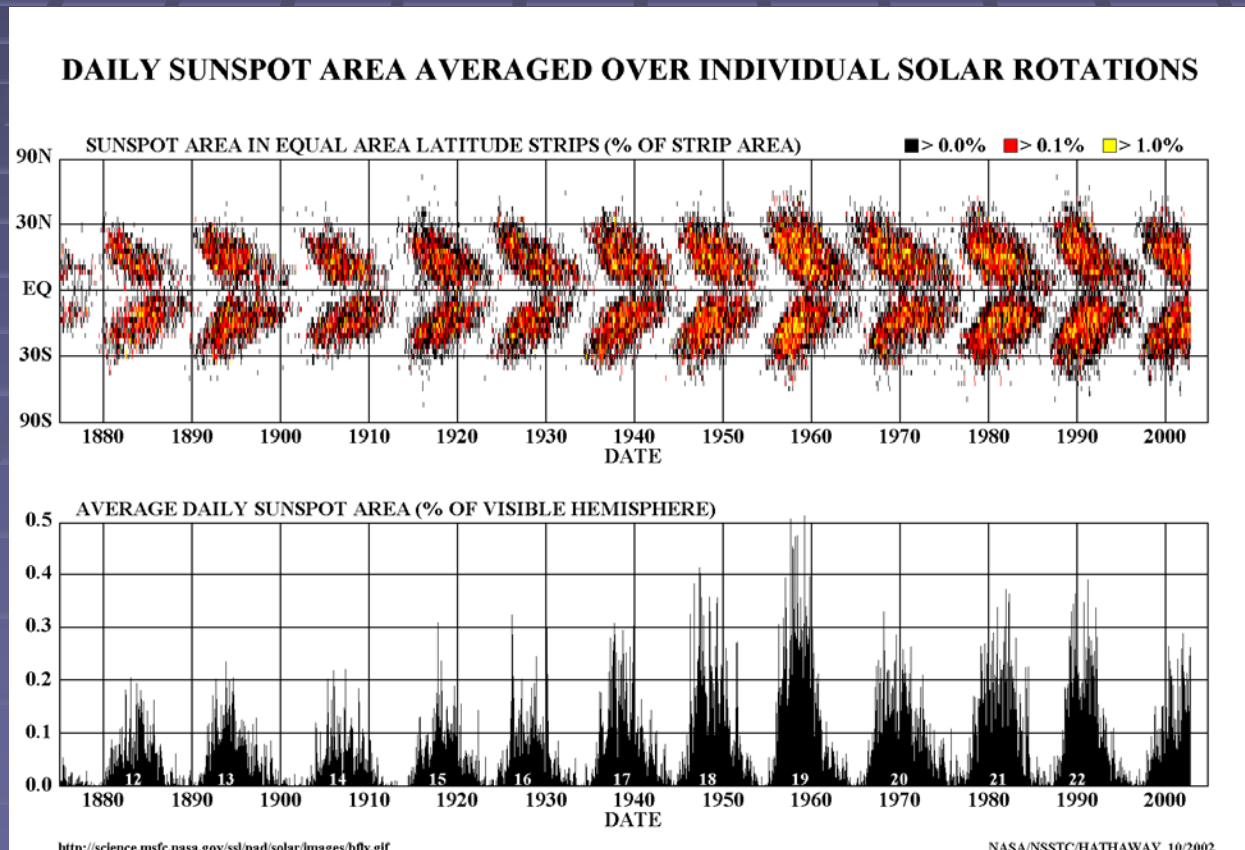
SOHO MDI/SOI  
1996 May 26  
00:00 UT



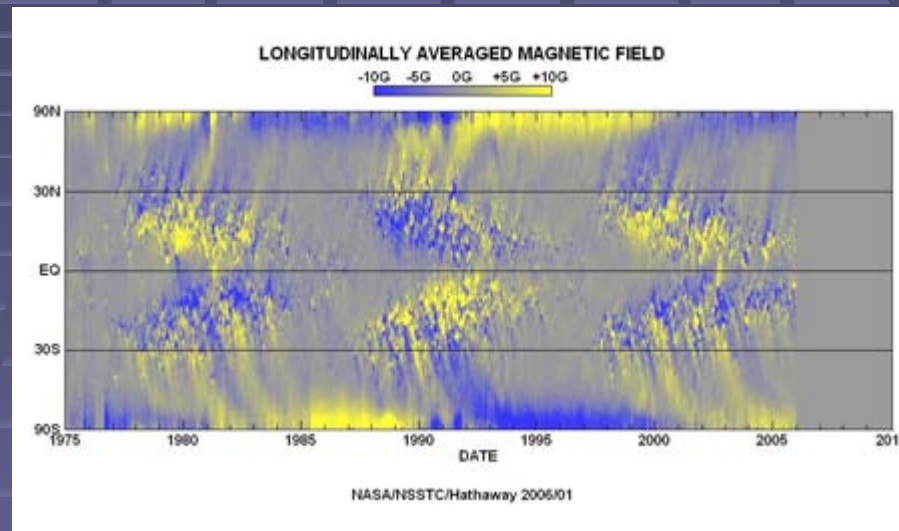
Doppler速度でみた  
超粒状斑



# 太陽の活動周期・バタフライ図(1)

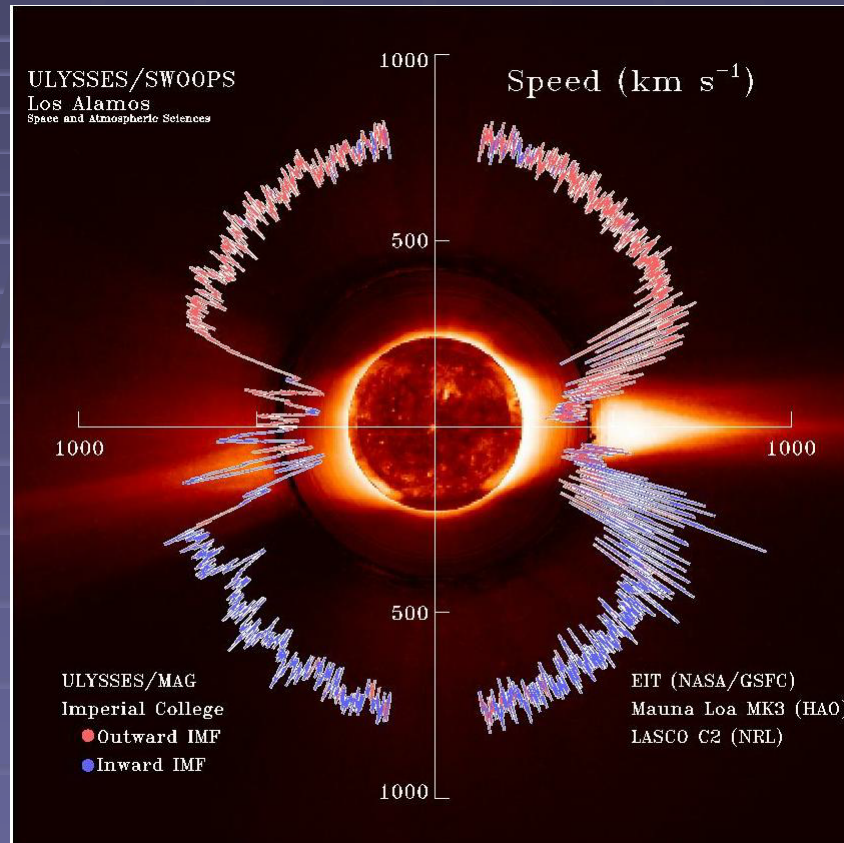


# 太陽の活動周期・バタフライ図(2)

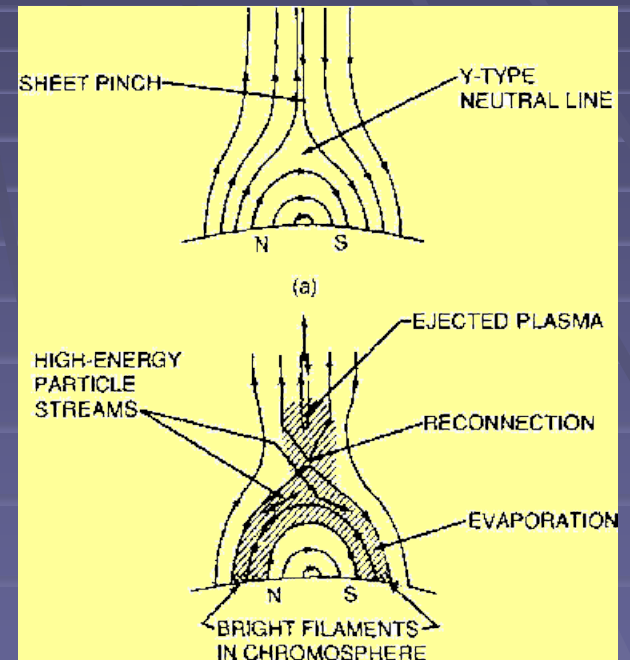
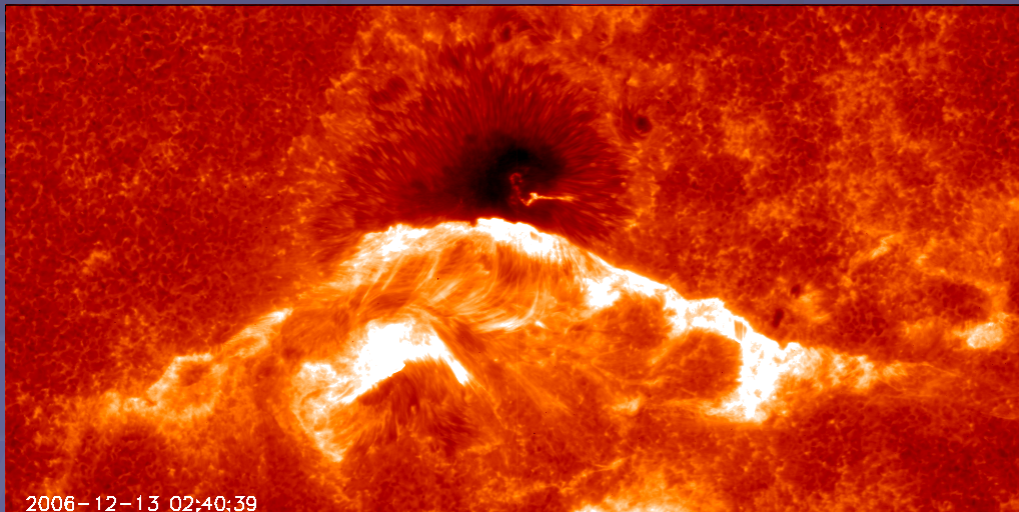


磁場極性の反転

# 太陽風

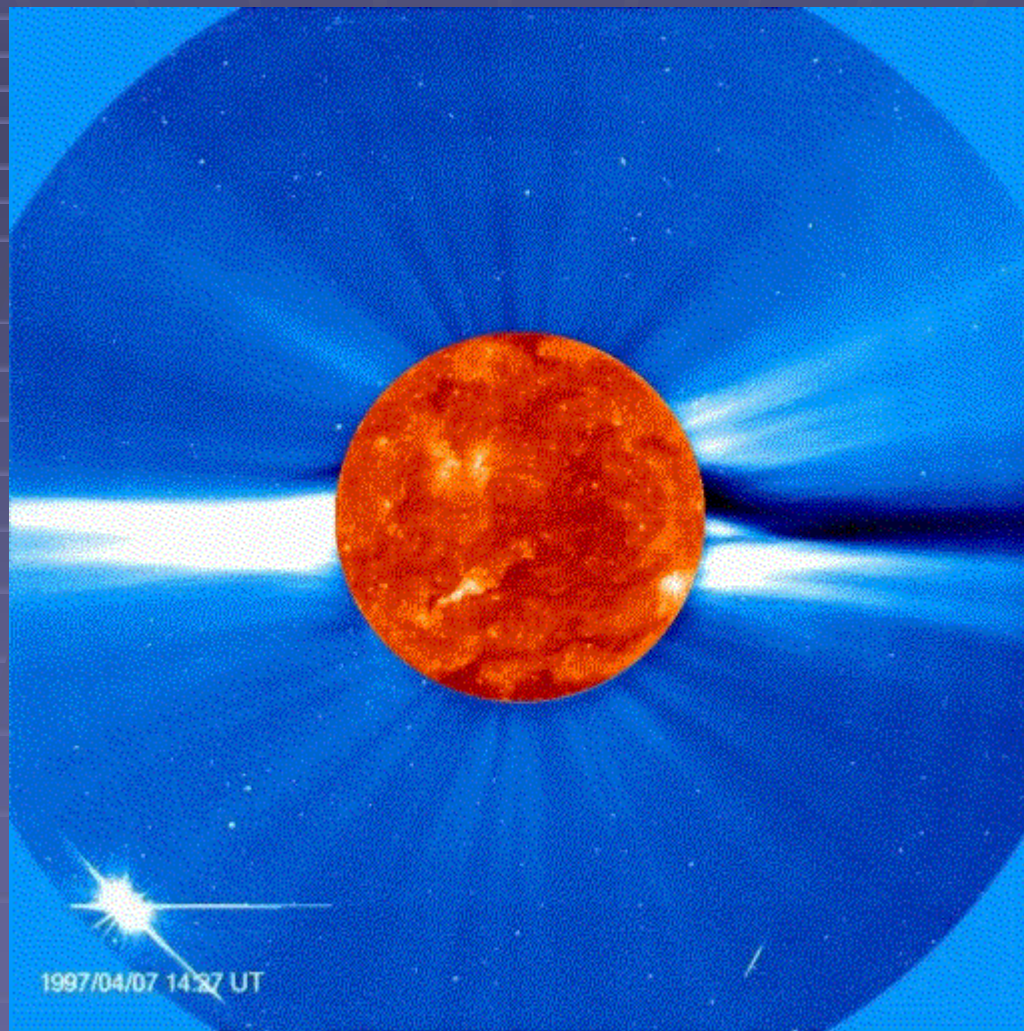


# フレアとリコネクション



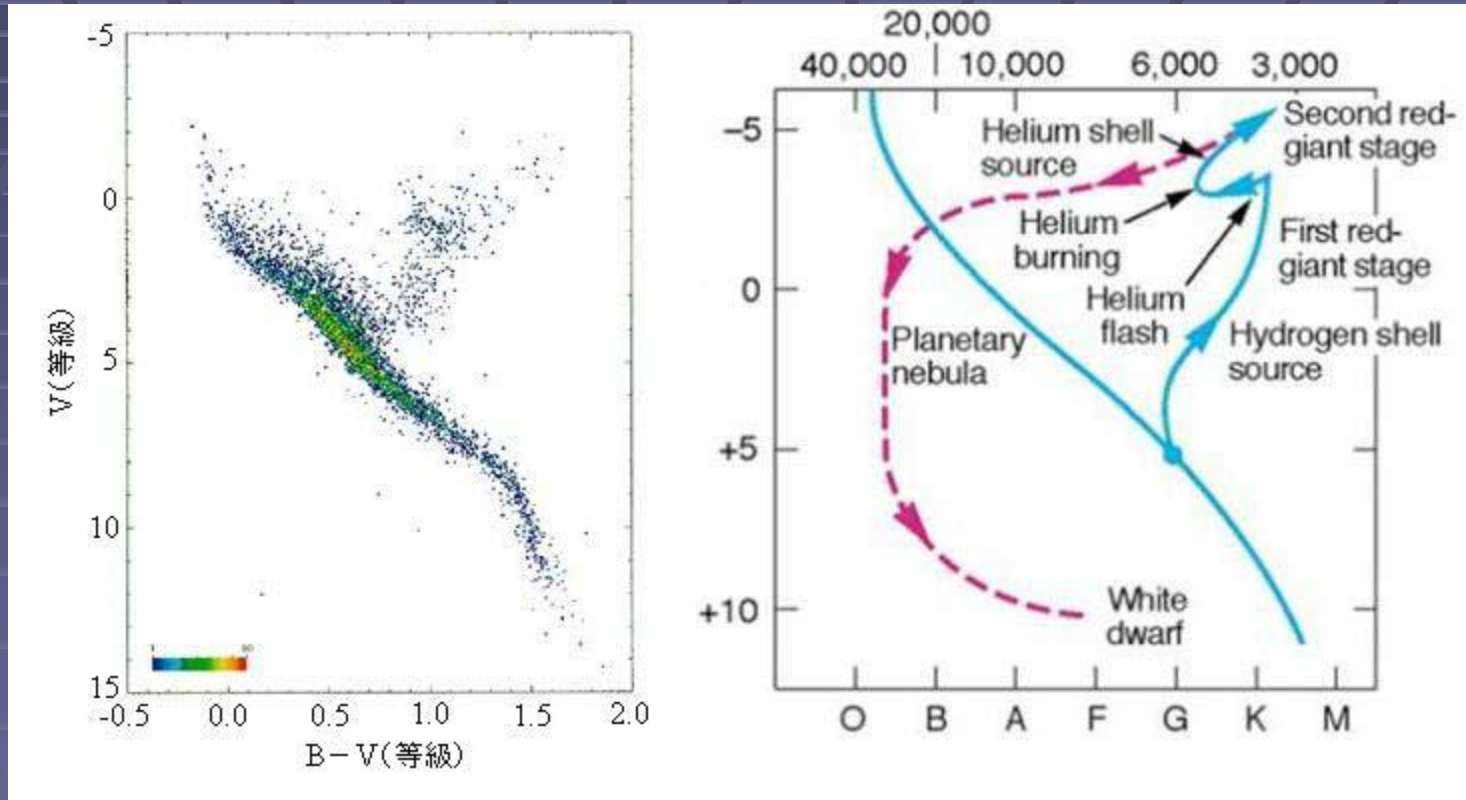


# CME

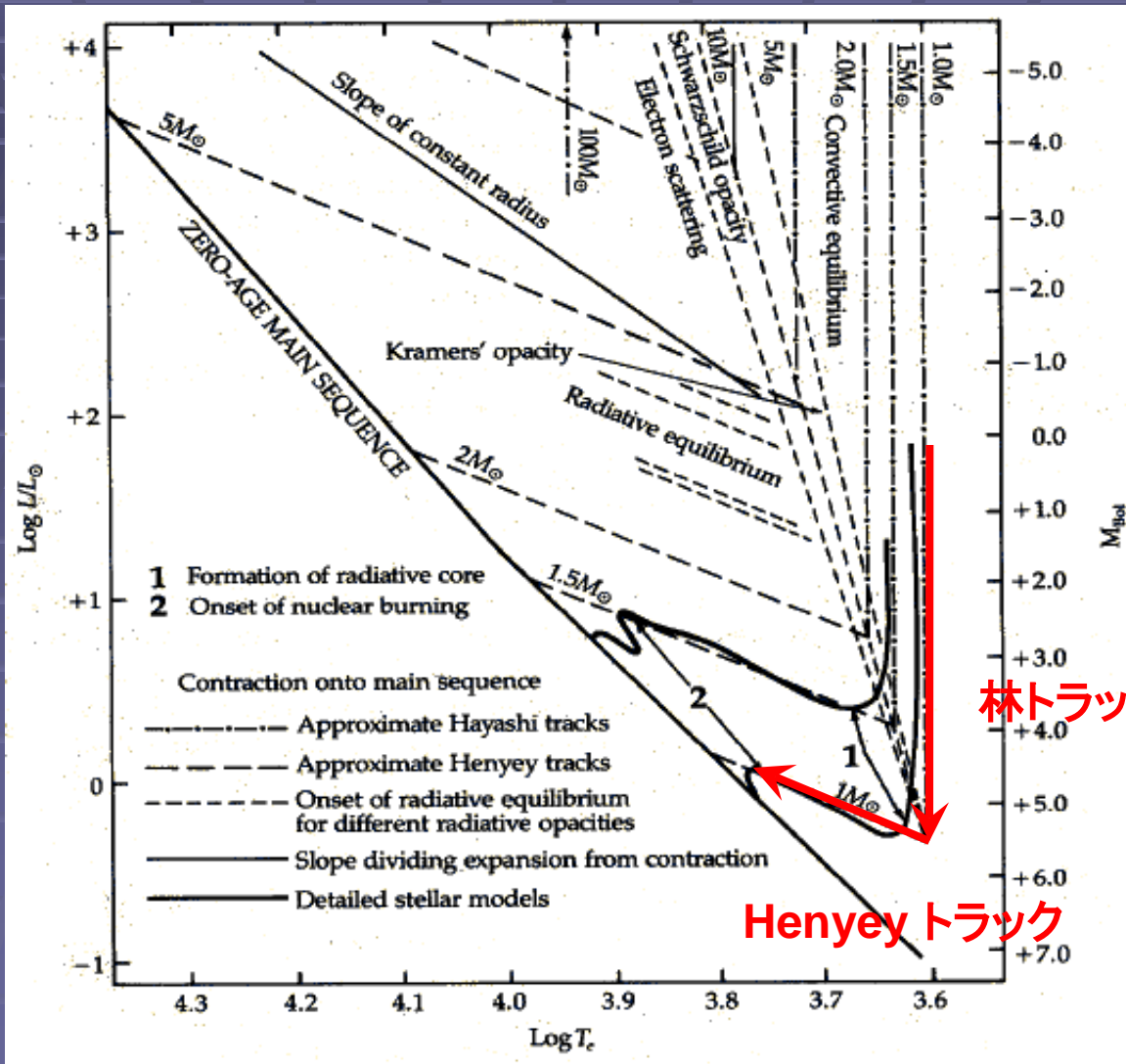




# HR図



# HR図



# 惑星状星雲



**NGC 2392**

Ultra-high-sensitivity HDTV I.I. color camera (NHK)  
Exp. 3 sec. (12 frames coadded) January 16, 1999

**Subaru Telescope, National Astronomical Observatory of Japan**

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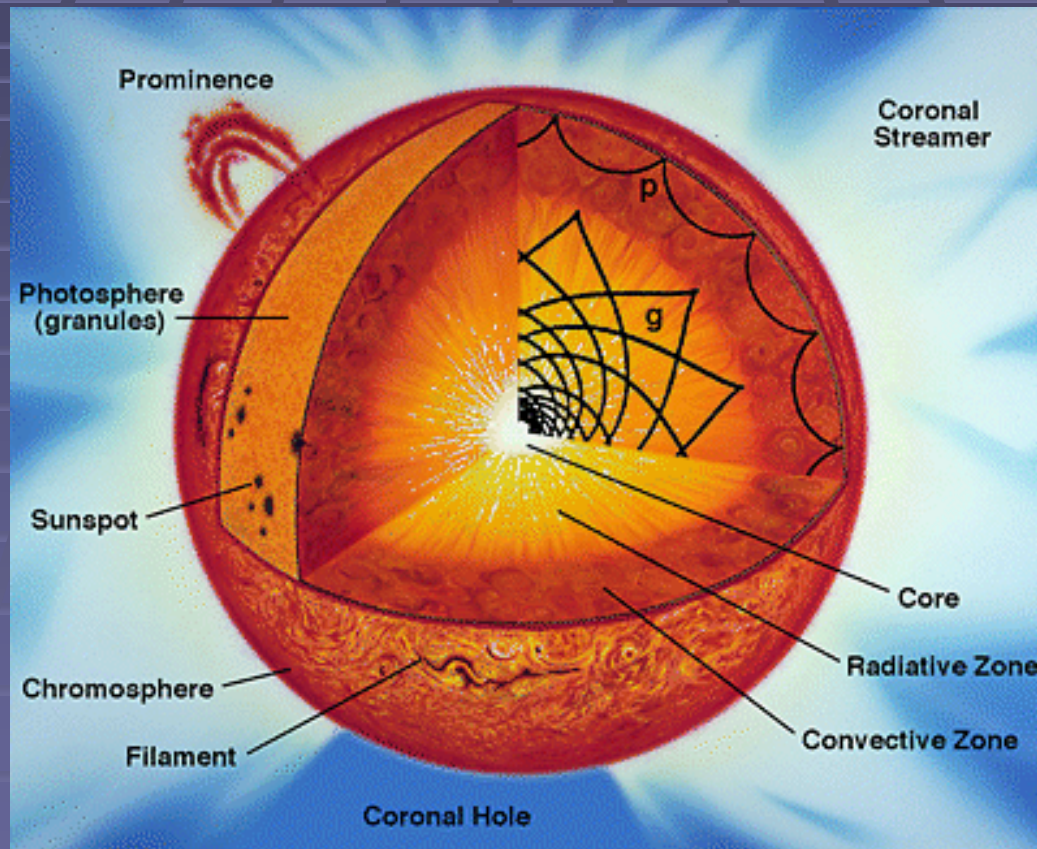
**IC 418 (Planetary Nebula)**

Ultra-high-sensitivity HDTV I.I. color camera (NHK)  
Exp. 1.5 sec. (12 frames coadded) January 17, 1999

**Subaru Telescope, National Astronomical Observatory of Japan**

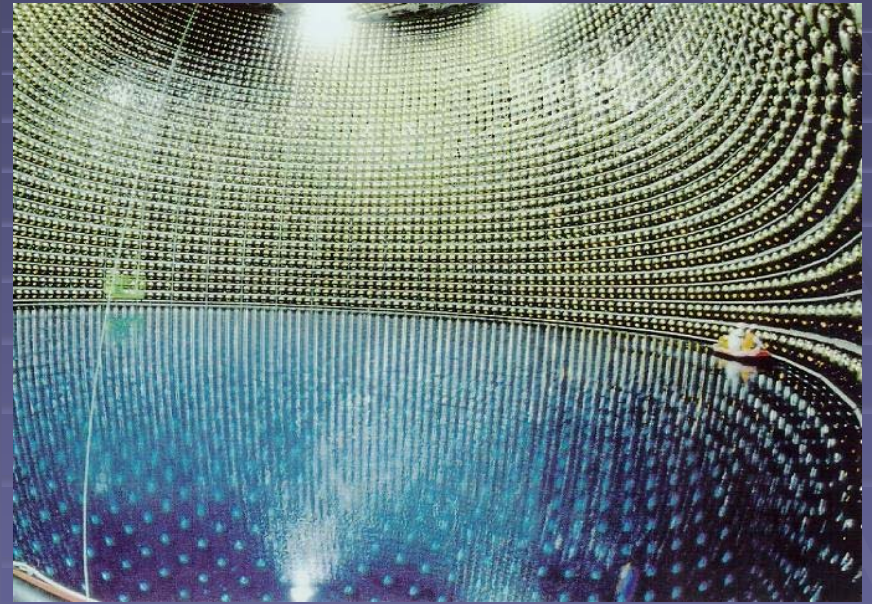
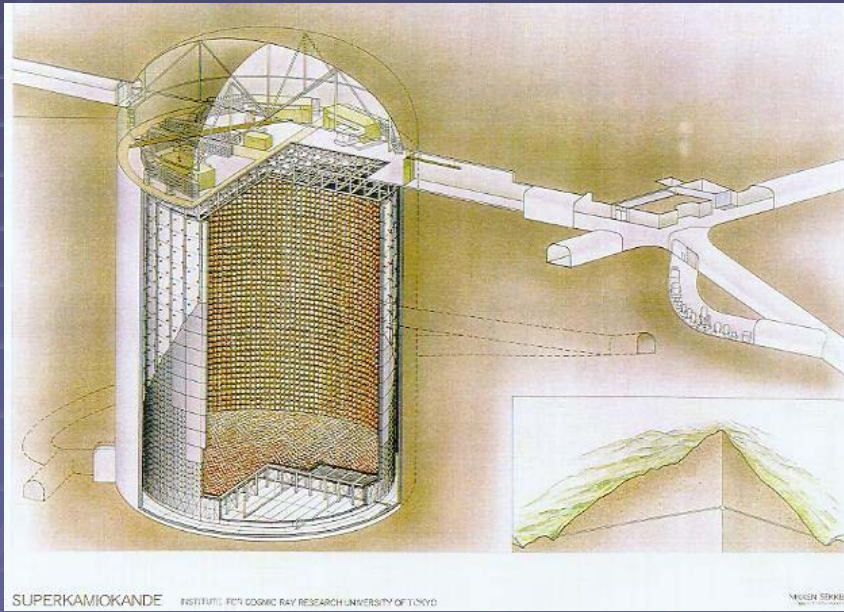
Copyright © 1999, National Astronomical Observatory of Japan, all rights reserved

# 太陽の内部構造



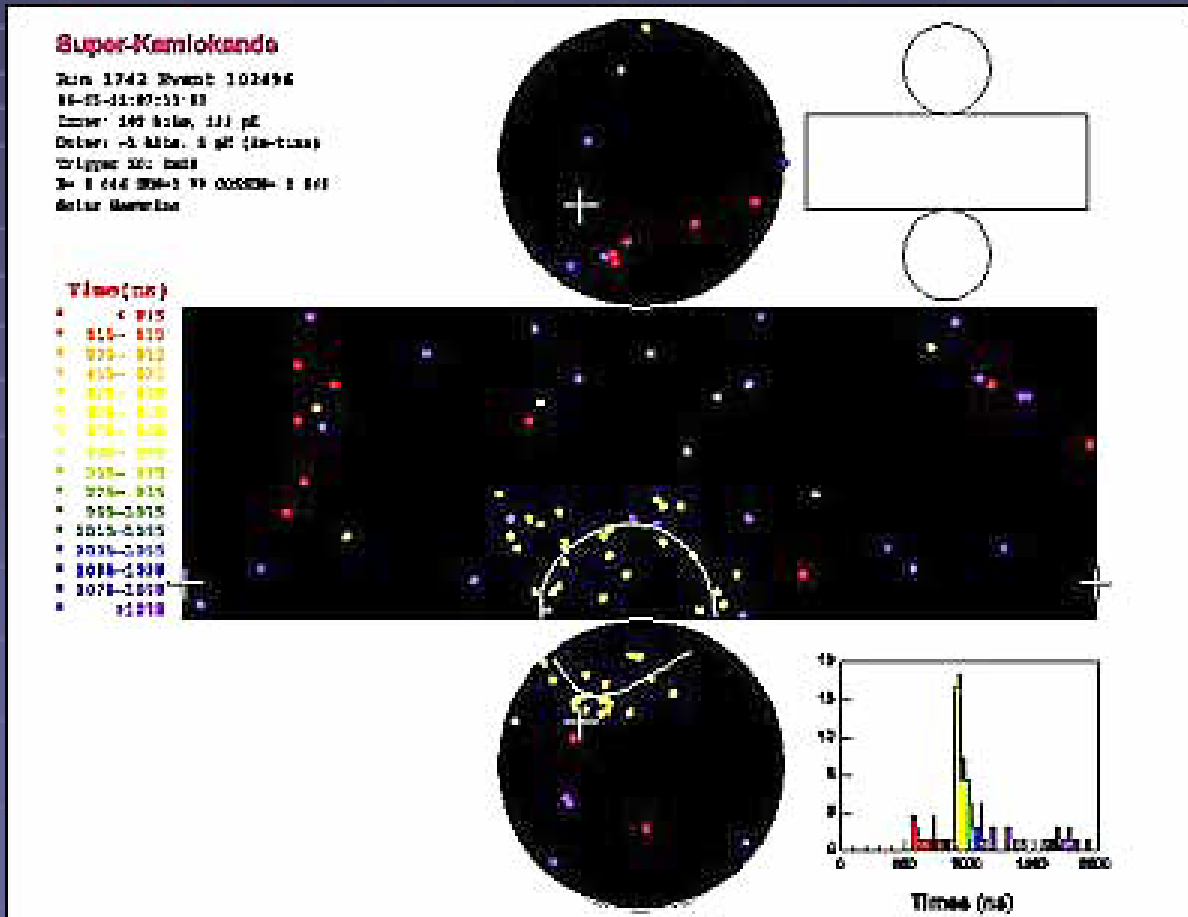


# SuperKamiokande

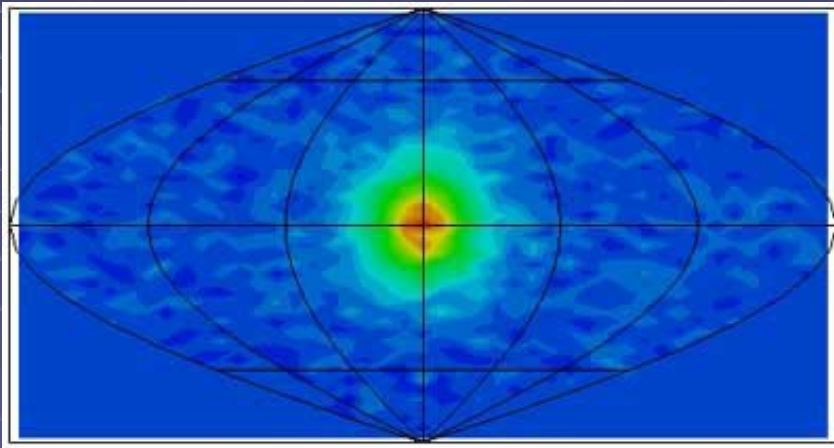




# SuperKamiokande : イベント

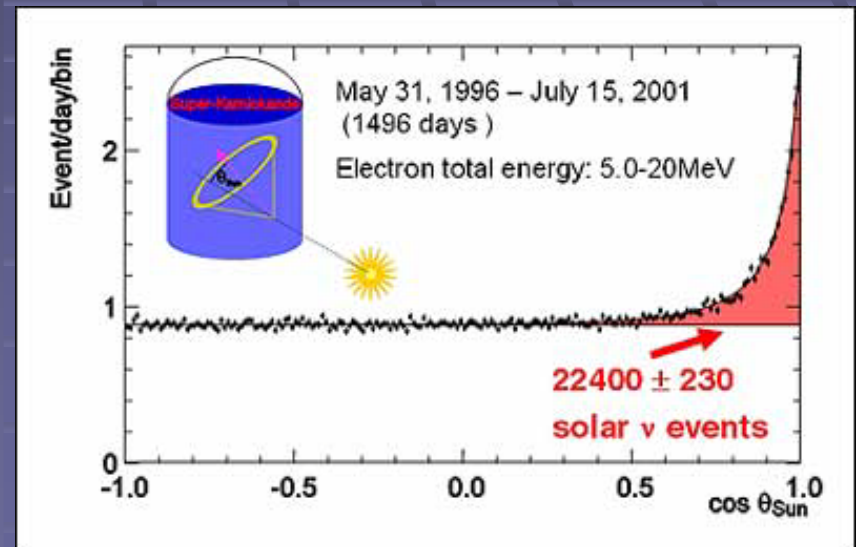


# SuperKamiokande: 太陽ニュートリノ

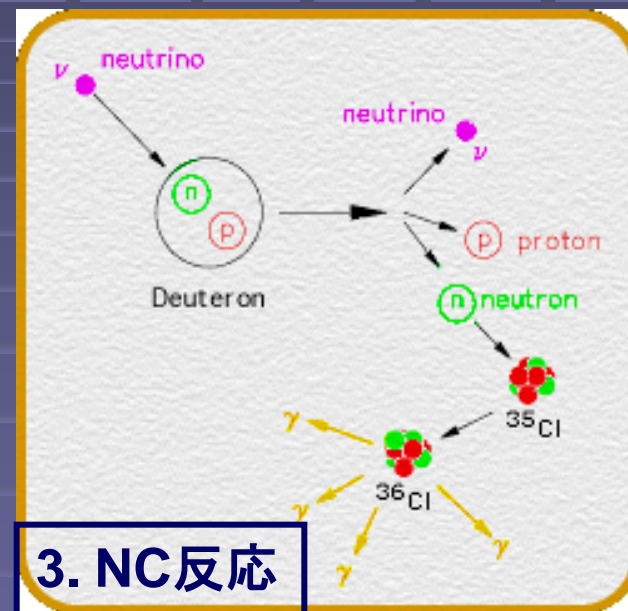
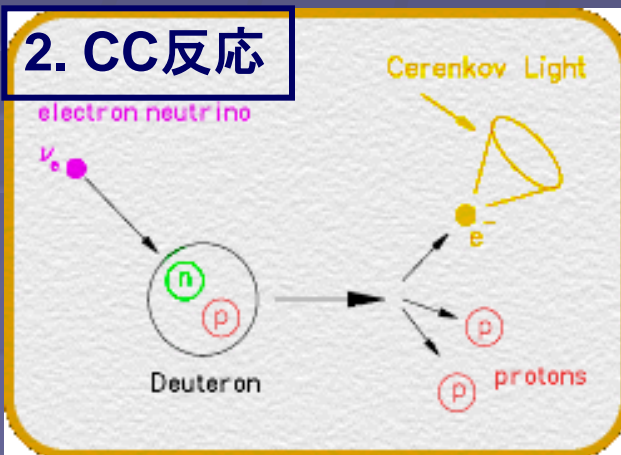
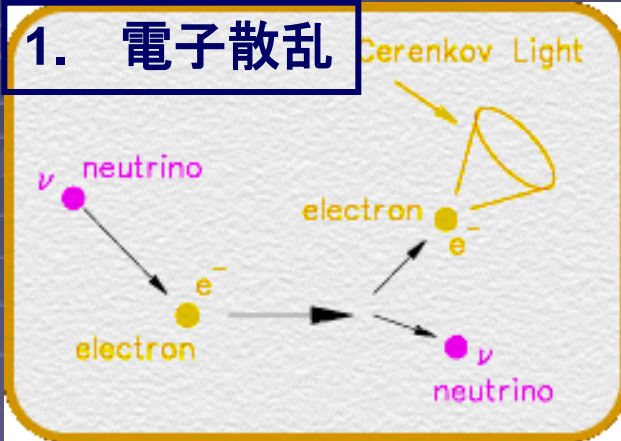


SuperKで「みた」太陽

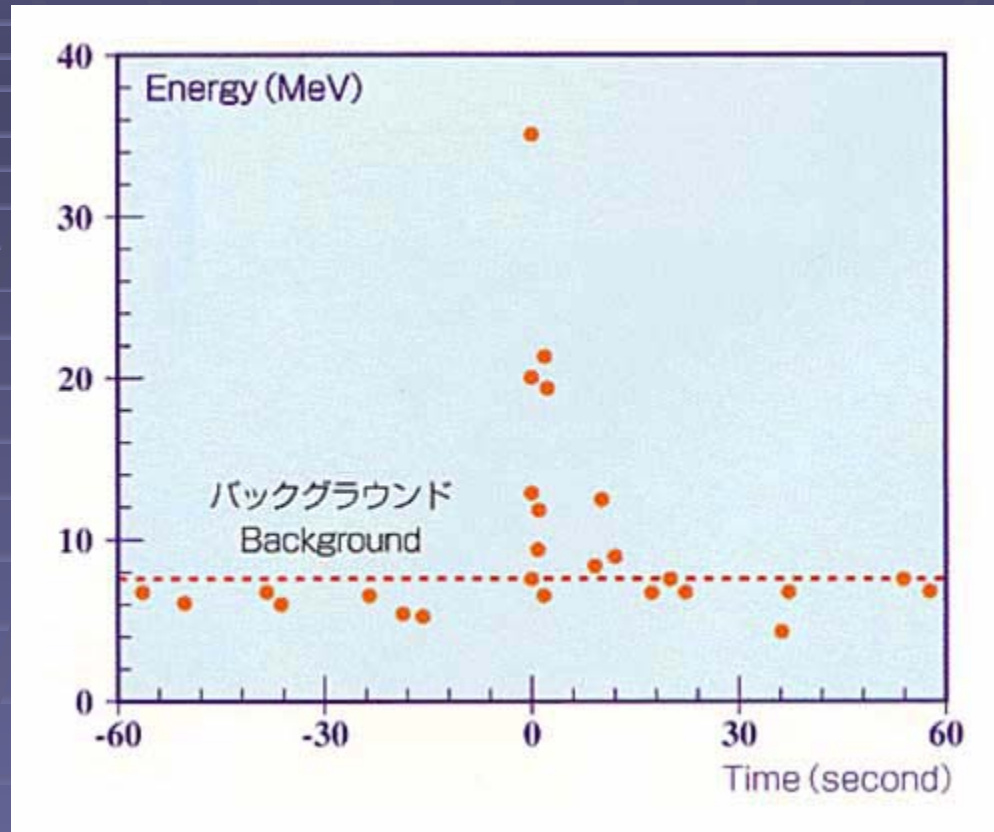
## SuperKによる太陽ニュートリノ観測



# ニュートリノ検出に使われる反応



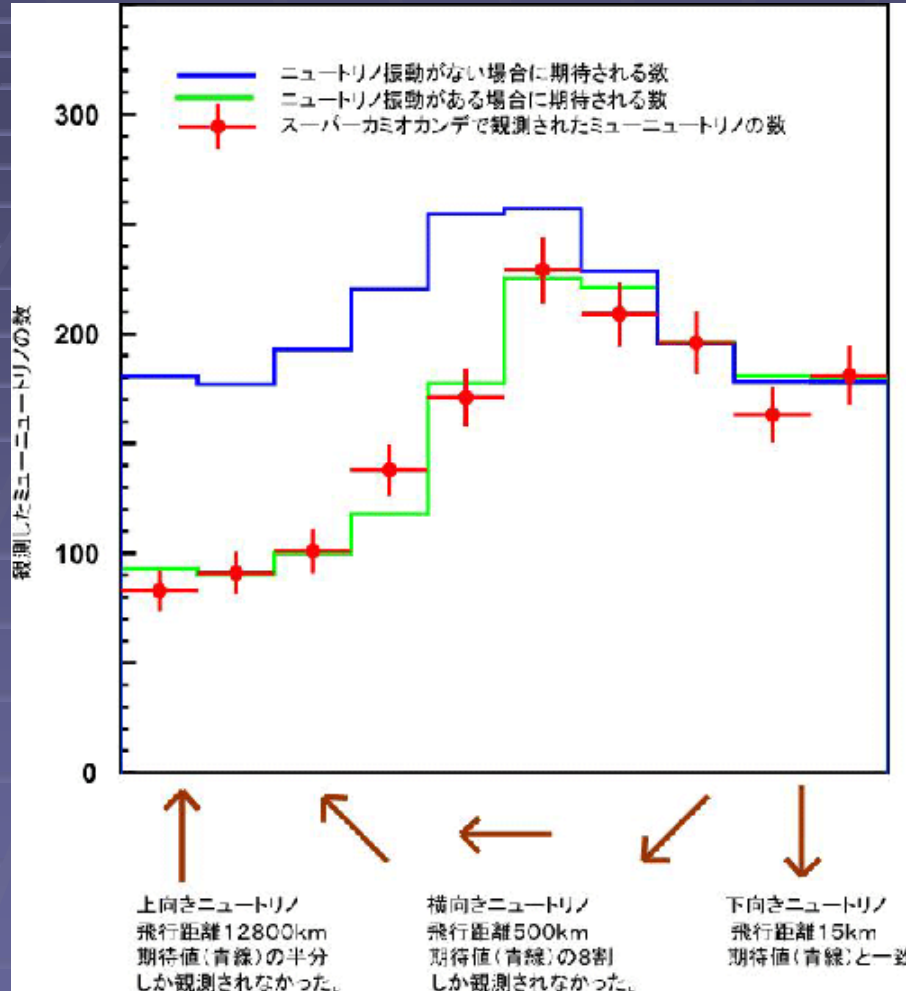
# 超新星SN1987Aからのニュートリノ



Kamiokandeが捕らえたSN1987Aからのニュートリノ



# 大気ニュートリノ

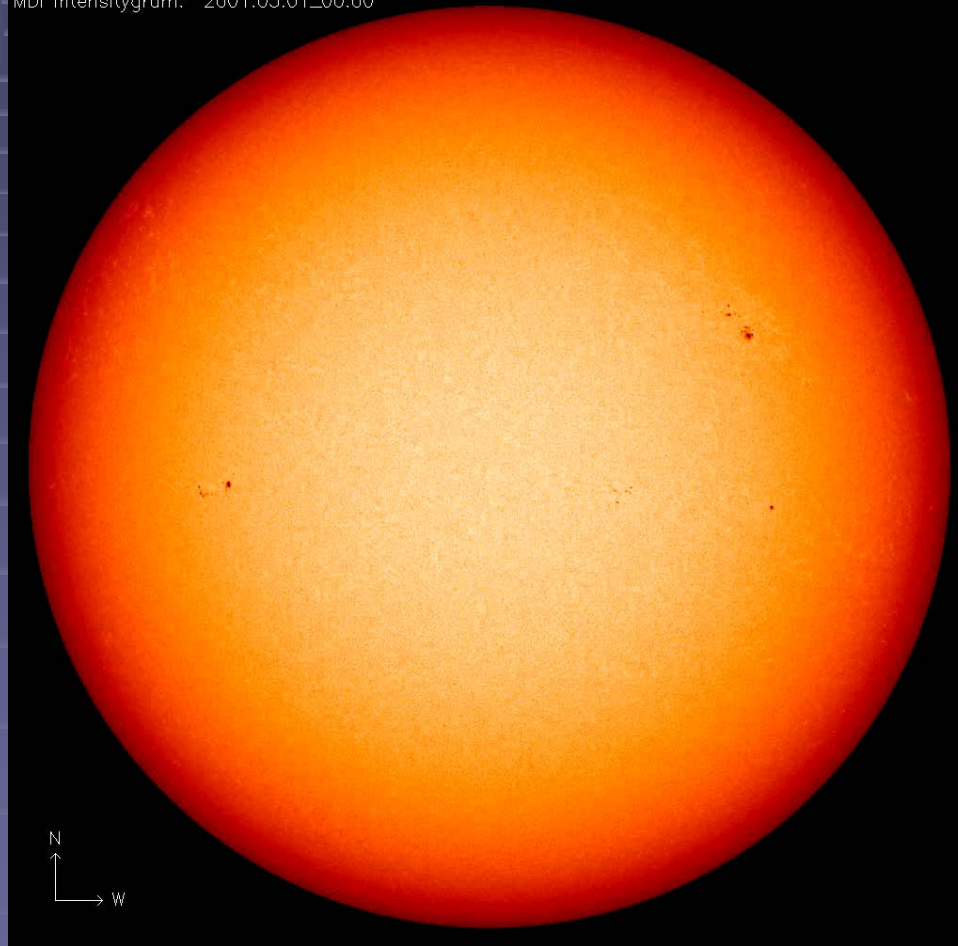


SuperKによる  
大気ニュートリノ実験

# 活動領域の時間発展

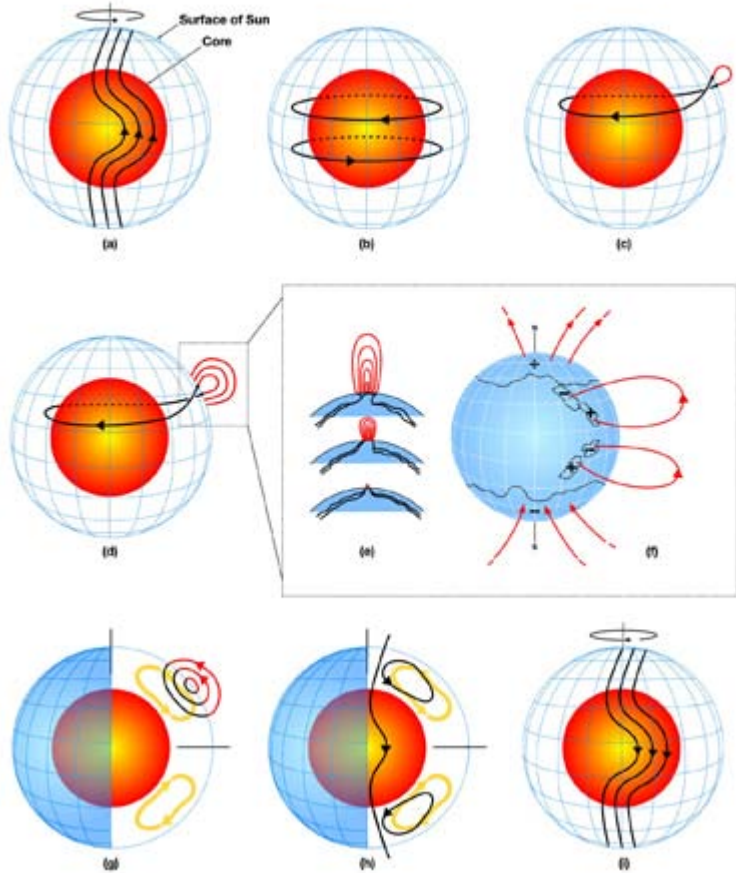
**GONG Network  
Magnetograms**

MDI Intensitygram: 2001.03.01\_00:00



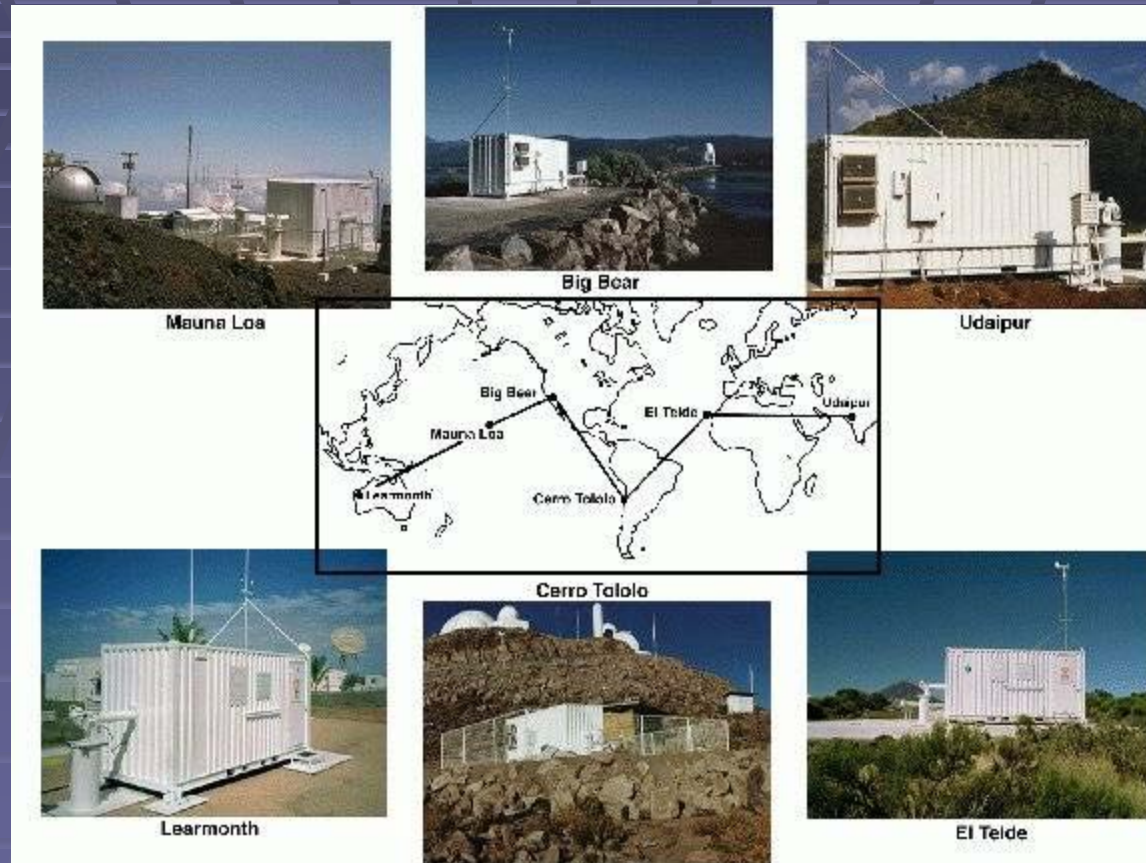
# ダイナモ機構

Physical processes in the flux-transport dynamo that simulates and predicts solar cycles



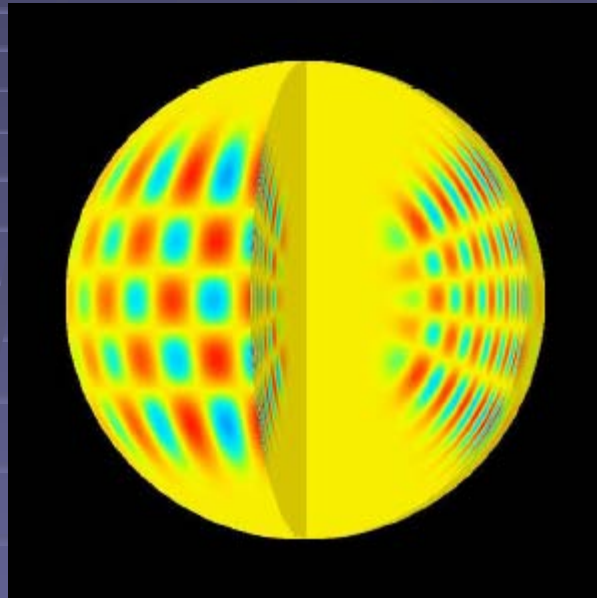
最近のダイナモ機構モデルによる太陽活動周期の説明

# GONG計画





# 太陽の固有振動パターン



$l=20, m=16, n=14$ のモードのパターン

# 太陽振動

