

10 研究成果報告 (1999 年に発表されたもの)

使用された天文台装置の略号は以下のとおりです。

略号	装置
P	65 cm 屈折望遠鏡
D	ドームレス太陽望遠鏡
K	花山画像解析システム
F	フレアー監視望遠鏡
O	その他

10.1 出版

- (1) **P** Akabane, T., Nakakushi, T., Iwasaki, K., and Larson, S. M.,
Mars: The opacity of the equatorial cloud belt in 1997 and 1999,
Proc. 32nd ISAS Lunar Plan. Symp. 192-195 (1999).
- (2) **P** Nakakushi, T., Akabane, T., Iwasaki, K., and Larson, S. M.,
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Proc. 32nd ISAS Lunar Plan. Symp. 196-199 (1999).
- (3) **P** Nakakushi, T., Akabane, T., Iwasaki, K. and Larson, S. M.,
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The Fifth International Conference on Mars, #6097. LPI Contribution No.972, Lunar
and Planetary Institute, Houston(CD-ROM).

以下 (4) から (13) まで 太陽研究会「21 世紀の太陽研究の方向を探る」集録

- (4) **D** 高津 祐通
RTFS2 の開発と水平速度場の解析
- (5) **D** 吉村 圭司
粒状斑模様を用いた局所相関追跡法における Systematic Error について
- (6) **D** 桜井 隆 (国立天文台)、馬場 直志 (北大)、三浦 則明 (北見工大)
太陽の高分解能撮像と画像改良技法
- (7) **D** 石井 貴子
活動領域における浮上磁場構造の決定に必要な観測
- (8) **K** 武田 秋
日食観測からみたコロナの温度・密度構造と今後の観測
- (9) **F** 森本 太郎
H α フィラメント消失とようこう SXT イベント
- (10) **O** 真柄 哲也
CME 理論モデルの現状と今後のアプローチ

- (11) D 上野 悟
ドームレス太陽望遠鏡・マグネトグラフ計画
- (12) D 川上 新吾 (大阪科学館)、當村 一朗 (大阪府立高専)
若い活動領域における磁場・速度場・明るさの関係
- (13) D 當村 一朗 (大阪府立高専)、井田 民男 (熊野高専)、北井 礼三郎
DST と高速度カメラによる太陽撮像の試み
- (14) O Singh, J., Ichimoto, K., Imai, H., Sakurai, T., and Takeda, A.,
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Green and Red Coronal Lines,
PASJ, 51, 269.
- (15) O Magara, T., and Shibata, K.,
Evolution of Eruptive Flares. II. The Occurrence of the Locally Enhanced Resistivity in
the Preflare Phase,
ApJ, 514, 456.
- (16) O Kudoh, T., and Shibata, K.,
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- (17) O Chou, W., Tajima, T., Matsumoto, R., and Shibata, K.,
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- (18) O Tanuma, S., Yokoyama, T., Kudoh, T., Matsumoto, R., Shibata, K., and Makishima,
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- (19) O Shimojo, M., and Shibata, K.,
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- (20) O Koide, S., Shibata, K., and Kudoh, T.,
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and Applications of General Relativistic Magnetohydrodynamic Numerical Code,
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- (21) O Kundu, M. R., Nindos, A., Raulin, J. -P., Shibasaki, K., White, S. M., Nitta, N.,
Shibata, K., and Shimojo, M.,
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- (22) O Kudoh, T., Matsumoto, R., and Shibata, K.,
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- (23) O Shibata, K., and Yokoyama, T.,
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- (24) O Shibata, K.,
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- (25) O Shibata, K., and Yokoyama, T.
MHD Simulations of Magnetic Reconnection and Solar Flares
- (26) O Tonooka, H., Matsumoto, R., Chou, W., Tajima, T., and Shibata, K.
Three-Dimensional MHD Simulations of the Emergence of Twisted Magnetic Flux Tubes
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- (27) O Magara, T., and Shibata, K.
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- (28) O Yokoyama, T., and Shibata, K.
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- (29) O Matsuzaki, T., Shibata, K., Tajima, T., and Matsumoto, R.,
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- (30) O Kuwabara, A., Matsumoto, R., Shibata, K., and Chou, W.
Dynamics of a Magnetic Flux Tube in Differentially Rotating Disks
- (31) O Hayashi, M., Shibata, K., and Matsumoto, R.
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- (32) O Kuwabara, T., Matsumoto, R., and Shibata, K.
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Nuclei
- (33) O Koide, S., Shibata, K., and Kudoh, T.
General Relativistic Jet Formation from Black-Hole Magnetized Accretion Disks
- (34) O Kato, S., Kudoh, T., and Shibata, K.
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- (35) O Kudoh, T., Shibata, K., and Matsumoto, R.
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- (36) O Tanuma, S., Yokoyama, T., Kudoh, T., and Shibata, K.
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- (39) O Takeuchi, T.T., Tomita, A., Nakanishi, K., Ishii, T.T., Iwata, I. and Saito, M.,
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- (40) O Takeuchi, T.T., Hirashita, H., Ohta, K., Ishii, T. T., Yoshikawa, K., and Shibai, H.,
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- (41) F Hori, K., Kosugi, T., Fujiki, K., Koshiishi, H., and Shibasaki, K.,
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- (42) O Magara, T., and Shibata, K.,
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ApJ, 514, 456.
- (43) D Magara, T., and Kitai, R.,
Photospheric and Chromospheric Gas Motions around a Dark Filament,
ApJ, 524, 469.
- (44) F Kitai, R., Kurokawa, H., Funakoshi, Y., Ishiura, K., and Shinkawa, T.,
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- (45) K Takeda, A., Kurokawa, H., Kitai, R., and Ishiura, K.,
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- (46) **K** Takeda, A., Kurokawa, H., Kitai, R., and Ishiura, K.,
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- (47) **O** Shibata, K.,
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- (48) **D** Ishii, T.T., Kurokawa, H., and Takeuchi, T.T.,
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PASJ, in press.
- (49) **O** Takeuchi, T.T., Ishii, T. T., Hirashita, H., Yoshikawa, K., and Mazmine, K.,
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- (50) **O** Ishii, T. T. , Takeuchi, T.T., Hirashita, H., and Yoshikawa, K.,
Cosmic Star Formation History Required from Infrared Galaxy Number Count : Future Prospect for Infrared Imaging Surveyor (IRIS),
in Star Formation from the Small to the Large Scale, 33rd ESLAB Symposium, SP-445 to appear in 1999.
- (51) **O** Takeuchi, T. T., Ishii, T. T., and Yoshikawa, K.,
Tests of Statistical Methods for Estimating Galaxy Luminosity Function and Applications to the Hubble Deep Field : Implication to the Cosmic Star Formation,
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- (52) **O** Takeuchi, T. T., Hirashita, H., Ishii, T. T., and Yoshikawa, K.,
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in press.
- (53) **O** Shibata, K.,
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- (54) **O** Shibata, K., and Kudoh, T.,
Formation and Collimation of Jets by Magnetic Forces (invited talk),
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- (55) **O** Matsumoto, R., and Shibata, K.,
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Adv. Space Res. vol. 23, pp 1109-1112, (1999).

- (56) O Kuwabara, T., Matsumoto, R., and Shibata, K,
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- (57) O Tanuma, S., Yokoyama, T., Kudoh, T., and Shibata, K.,
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Astronomische Nachrichten, 320, 341.
- (58) O Kudoh, T., Aoki, S., Koide, S., and Shibata, K.,
Are blazar jets magnetically driven outflows?
Astronomische Nachrichten, 320, 311.

10.2 研究会報告

岡本教授退官記念研究会 (三鷹) 2 月

- (1) O 柴田一成
Various MHD Outflow Phenomena in the Sun and Their Relation to Astrophysical Jets
(invited talk)

天文情報処理研究会「パソコンベースの天文ツール」(和歌山) 3 月

- (2) D 高津裕通
Linux 上で GNU C++ を使った太陽画像解析

Solar B meeting (相模原) 3 月

- (3) O 柴田一成
Comments on Solar B Science (invited talk)

ASCA symposium (八王子) 3 月

- (4) O Shibata, K. and Yokoyama, T.
Origin of Universal Correlation between Flare Temperature and Emission Measure

日本天文学会春季年会 (京都) 3 月

- (5) D 高津裕通、北井礼三郎、船越康宏、真柄哲也
活動領域 NOAA8323 における光球面水平方向速度場

- (6) K 武田 秋、黒河宏企、北井礼三郎、石浦清美
輝線コロナループ (200 万度と 100 万度) の特性比較

- (7) O 石井 貴子
How Many Flares Occur in an Active Region? : Estimation of Flare Activity Level

- (8) D 真柄哲也、北井礼三郎
Photospheric and Chromospheric Motions around A Dark Filament