

SVOM WHITE PAPER – SUMMARY

FOREWORD

Introduction	J. Paul	
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CONTEXT

Time-domain astrophysics: the discovery space after Swift	P. O'Brien	B. Zhang
The astronomical panorama in 2020	J.-L. Atteia	S.N. Zhang

SVOM MISSION

SVOM mission profile	B. Cordier	J. Wei
SVOM instrument characteristics	B. Cordier	J. Wei

SVOM ADVANCES ON GRB SCIENCE (*SVOM CORE PROGRAM*)

The population of classical long GRBs: physical mechanisms	F. Daigne	Y.F. Huang
The population of classical long GRBs: characterization of the population	S. Vergani	E.W. Liang / Y.W. Yu
The population of short GRBs (includes the synergy with GWs)	J. Osborne	G. He / L.X. Li
The diversity of stellar explosions (soft GRBs, ultra-soft GRBs, sub luminous GRBs, etc.)	R. Mochkovitch	B. Zhang
GRBs as particle accelerator (link with CR and neutrinos)	D. Dornic	Z. Li / X.Y. Wang
GRBs at high redshift	S. Basa	E.W. Liang / X.F. Wu
GRBs to study the evolution of star formation	S. Boissier	F.Y. Wang
GRBs to study galaxies	E. le Floch	Y. Li ??
Absorption spectroscopy on the line of sight of GRBs (IGM reionization, etc.)	P. Petitjean	J. Wang
GRB as standard rulers	S. Basa	Z.G. Dai

SVOM ADVANCES ON RAPID FOLLOW-UP OBSERVATIONS (*SVOM TOO PROGRAM*)

Search for SVOM counterparts on multi-wavelength triggers	P. O'Brien	L.P. Xin / D. Xu
Search for SVOM counterparts on multi-messenger triggers	C. Lachaud	X.-G. Wang

SVOM ADVANCES ON OBSERVATORY SCIENCE (*SVOM GENERAL PROGRAM*)

Active Galactic Nuclei	V. Beckmann	J. Zhang ?? / X.L. Zhou
Other extragalactic sources	N. Webb	H. Feng / X.L. Zhou
Galactic sources	J. Rodriguez	W.F. Yu / S.N. Zhang
Miscellaneous topics (e.g. CXB)	A. Goldwurm	
Studies of extrasolar planets and solar system bodies	TBD	TBD