

# EARLY DAYS OF X-RAY ASTRONOMY

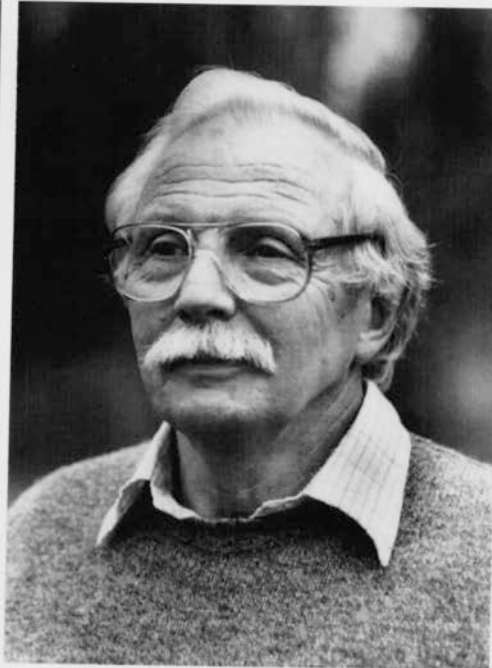
GEORGE W. CLARK

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# PIONEERS OF HIGH-ENERGY X-RAY ASTRONOMY



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# EXPLORER 11 - HIGH-ENERGY GAMMA-RAY OBSERVATORY

APRIL 27, 1961

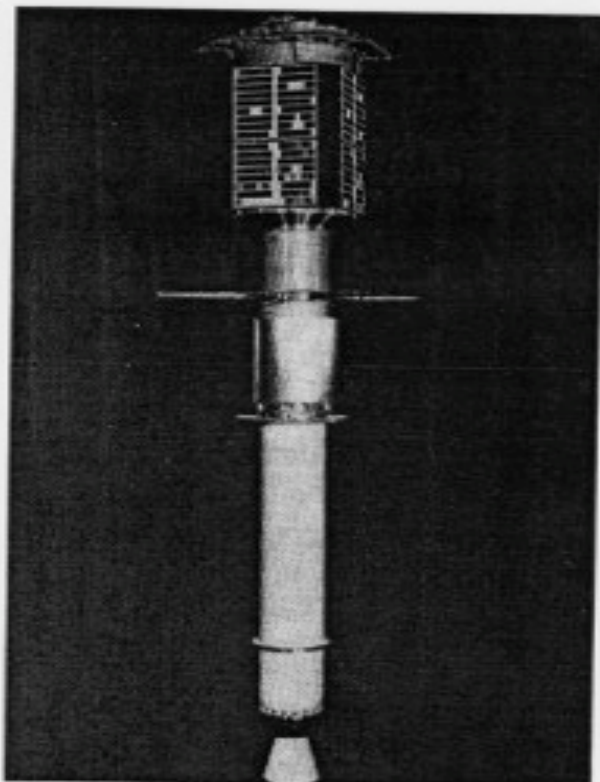
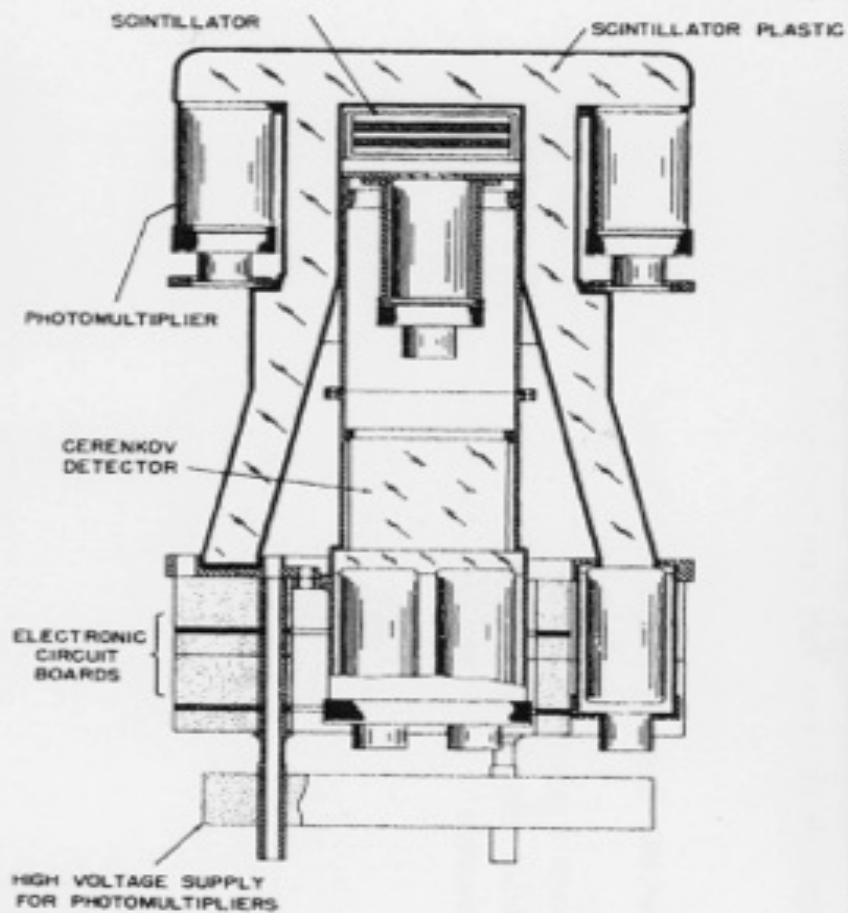
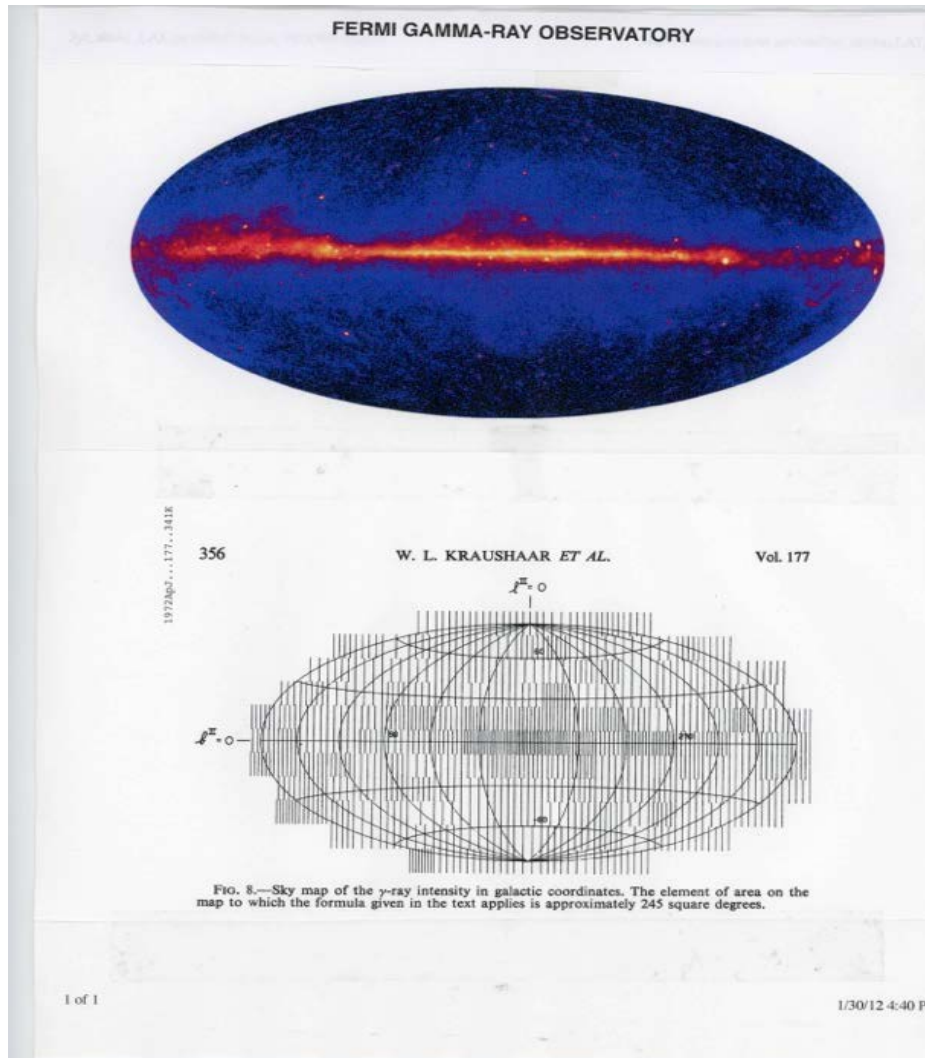


FIG. 1.—The complete Explorer 11 scintilla. The entire motor assembly attached and the elongated body mounted about a titanium axis in a glass which slowly precesses.

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# ALL-SKY HIGH-ENERGY GAMMA-RAY MAPS FROM OSO-3 AND THE FERMI OBSERVATORY



A BRIEF REVIEW  
OF  
EXPERIMENTAL AND THEORETICAL  
PROGRESS IN X-RAY ASTRONOMY

Sponsored By

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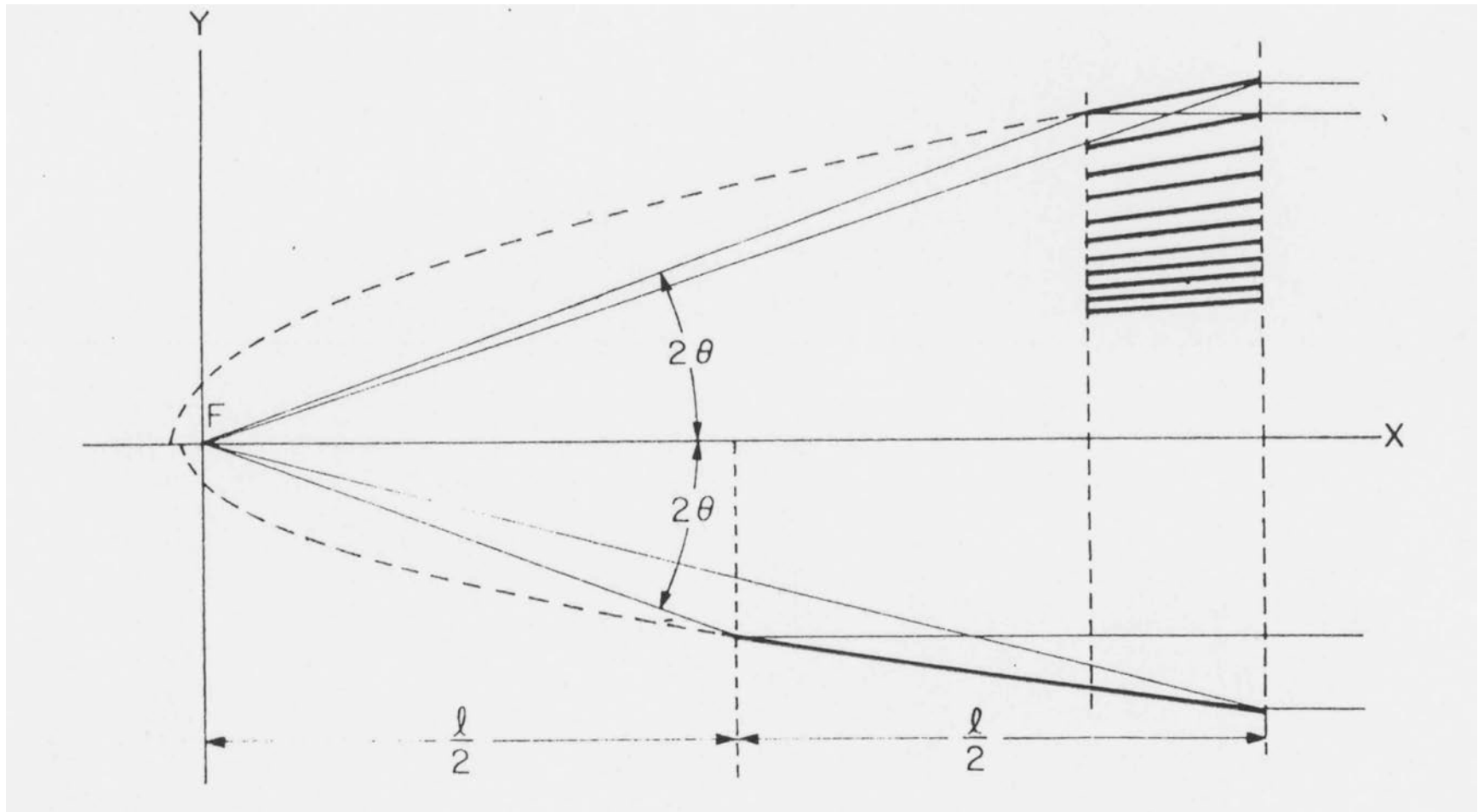
15 January 1960

Approved:

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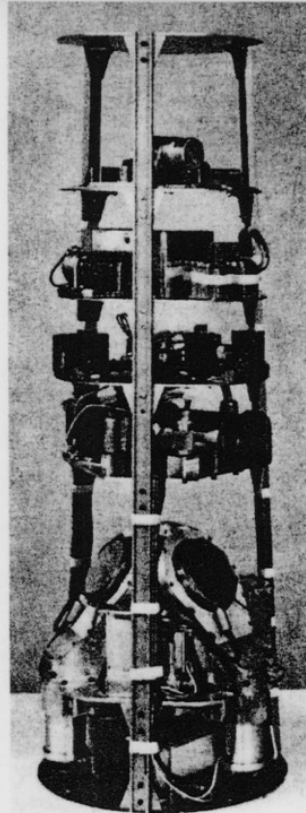
Martin Annis  
President

# NESTED X-RAY CONCENTRATOR



# 1962 Rocket Payload for Discovery of Extra-Solar X-Ray Sources

FIG. 4.2. *The 1962 rocket payload. At the bottom can be seen the pancake-shaped x-ray counters and the housings for the anti-coincidence scintillators, light pipes, and photomultipliers.*



R. Giacconi, *Secrets of the Hoary Deep*, The Johns Hopkins Univ. Press, 2008

# EVIDENCE FOR EXTRA-SOLAR X-RAY SOURCES

## EVIDENCE FOR X RAYS FROM SOURCES OUTSIDE THE SOLAR SYSTEM\*

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(Received October 12, 1962)

FIG. 4.4. Results obtained during 300 seconds of the June 18, 1962, rocket flight from two of the counters, folded over different rotations.

