

Giacconi's impact on Japanese X-ray astronomy

Hideyo Kunieda
Nagoya University

First generation X-ray astronomers in Japan



Riccardo Giacconi
(1931-2018)



Minoru Oda
(1923-2001)
1953-1956
1963-1966
MIT(Rossi)



Satio Hayakawa
(1923-1992)



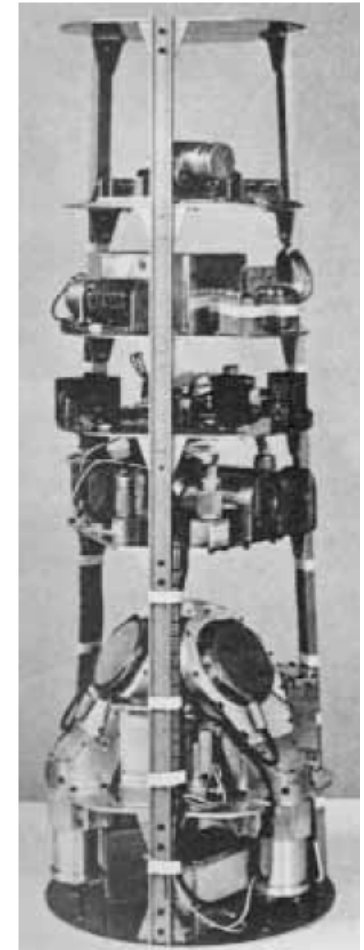
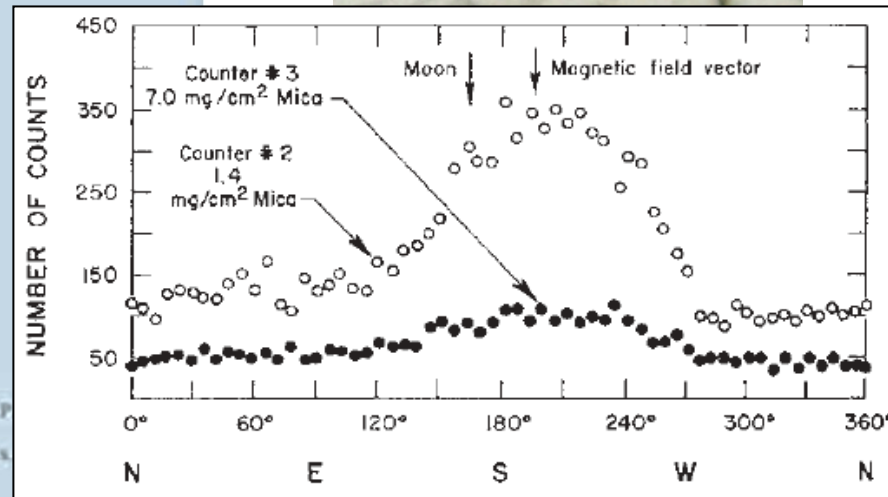
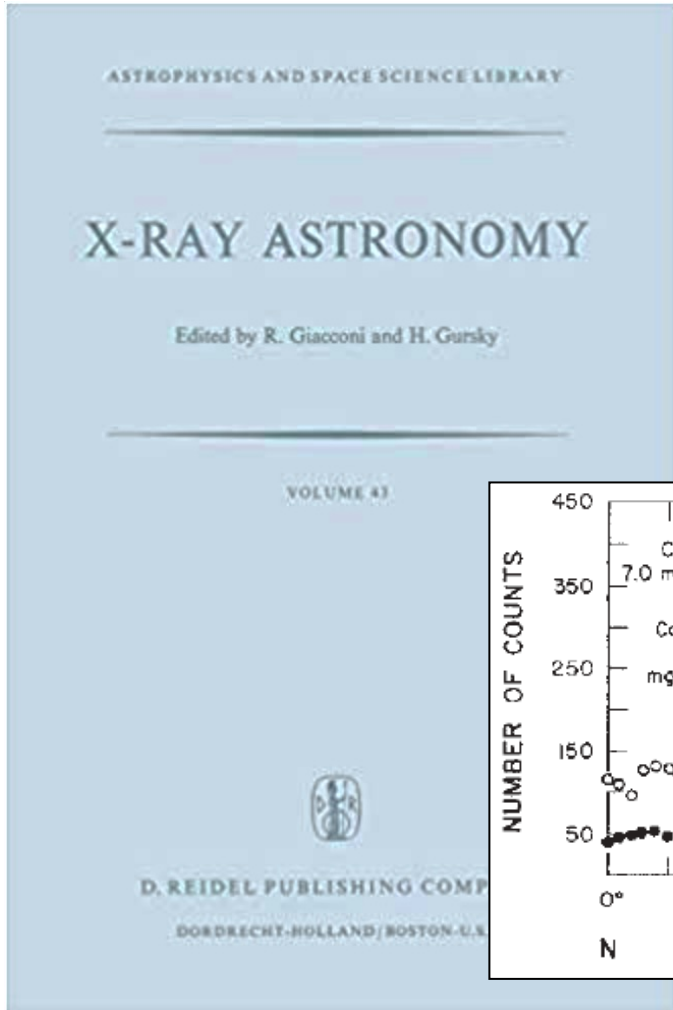
Yasuo Tanaka
(1931-2018)
1963-1967

Leiden(Netherlands)

First encounter

Visit to Nagoya in 1976

Text Book
“X-ray Astronomy”
Giacconi & Gursky(1974)



Rocket Experiment in June 1962

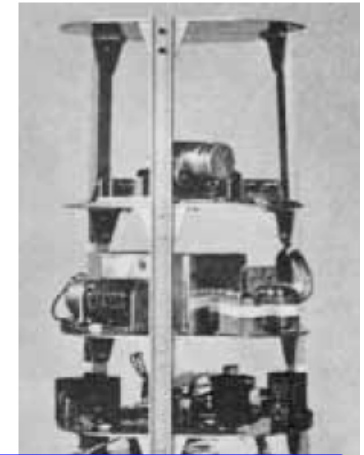
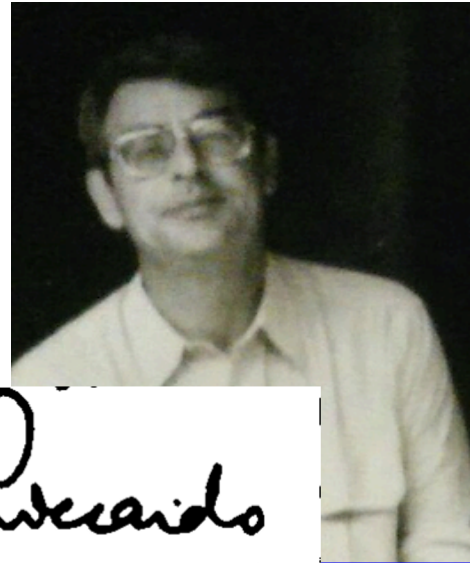
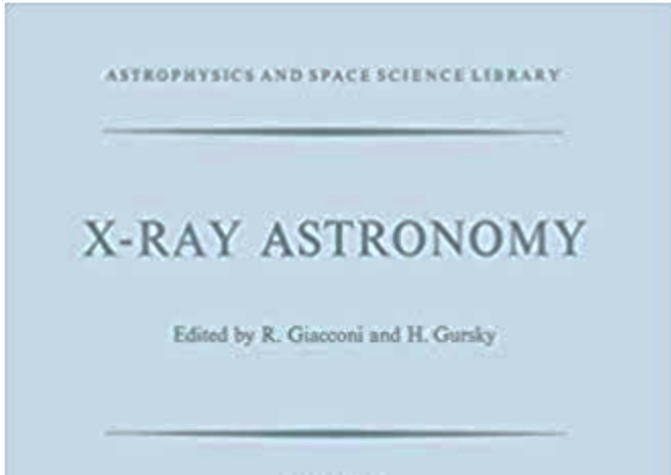
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My motivation for pressing forward was “a deep-seated faith in the boundless resourcefulness of nature, which so often leaves the most daring imagination of man far behind”.

DORDRECHT-HOLLAND/BOSTON-U.S.A.

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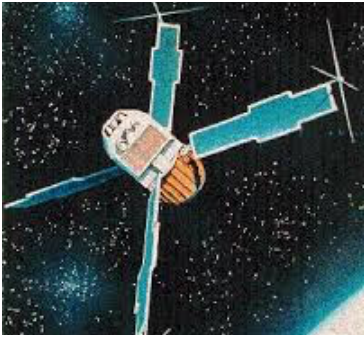
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Rocket Experiment in June 1962



UHURU
(1970) 64kg

In 1978-1979

Einstein

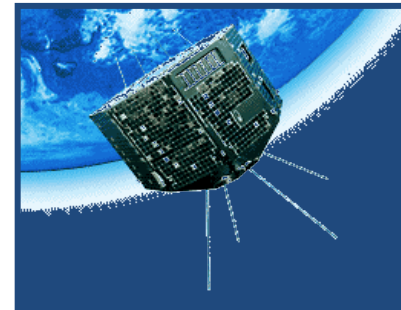
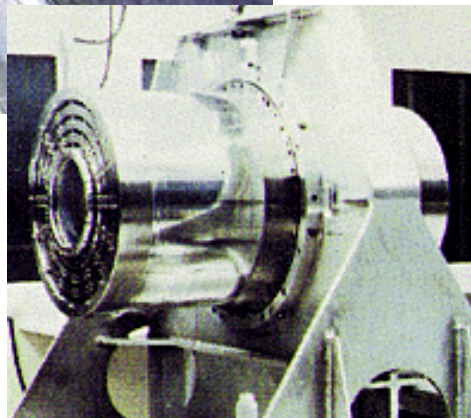
(Nov. 13, 1978)
3130 kg

Hakucho

Feb. 21, 1979
96 kg



Soft X-ray
Telescope



Proportional Counter
with Modulation Collimators

Chandra
(Jul. 23, 1999)
4800 kg



X-ray telescope
FL=10m
 $E \leq 10$ keV



In 1990' s

ASCA
(Feb. 20, 1993)
420 kg



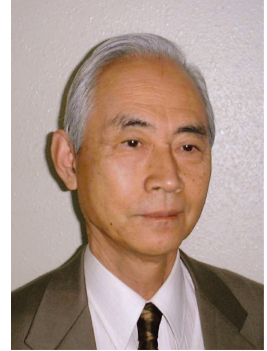
High throughput
X-ray telescopes
FL = 3.6 m
 $E \leq 10$ keV

Nobel Lecture in Tokyo

During ALAM meeting

February 27, 2004

(NAOJ)



**At the time of UHURU,
we got a “Hot Line” to nature,
I felt.**

The next step in Dr. Giacconi’s plan to **open a new hotline to nature**,,,,
(In the **OBITUARIES** of the New York Times on Dec. 13, 2018.)

Last encounter

"X-Ray Astronomy: towards the next 50 years!"

(October 2012 at Milan)

Lunch meeting on **Wide Field X-ray Telescope (WFXT)**

Riccardo Giacconi

Stephen S Murray

Martin C. Weisskopf

Tommaso Maccacaro

Roberto Della Ceca

Gianpiero Tagliaferri

Sergio Campana

Oberto Citterio

Maurizio Paolillo

Paolo Tozzi

Roberto Gilli

Stefano Borgani

Piero Rosati

The sensitivity and area of the planned Subaru surveys, as well as other wide-area surveys planned at other wavelengths over the next decade, are a great match for WFXT's ambitious science goals.

Yasuo Tanaka

Hideyo Kunieda

Tadayuki Takahashi

Kazuo Makishima

We are concentrating to **ASTRO-H** preparation to focus on soft X-ray high resolution spectroscopy and broad band imaging, which are complementary to the high resolution imaging.

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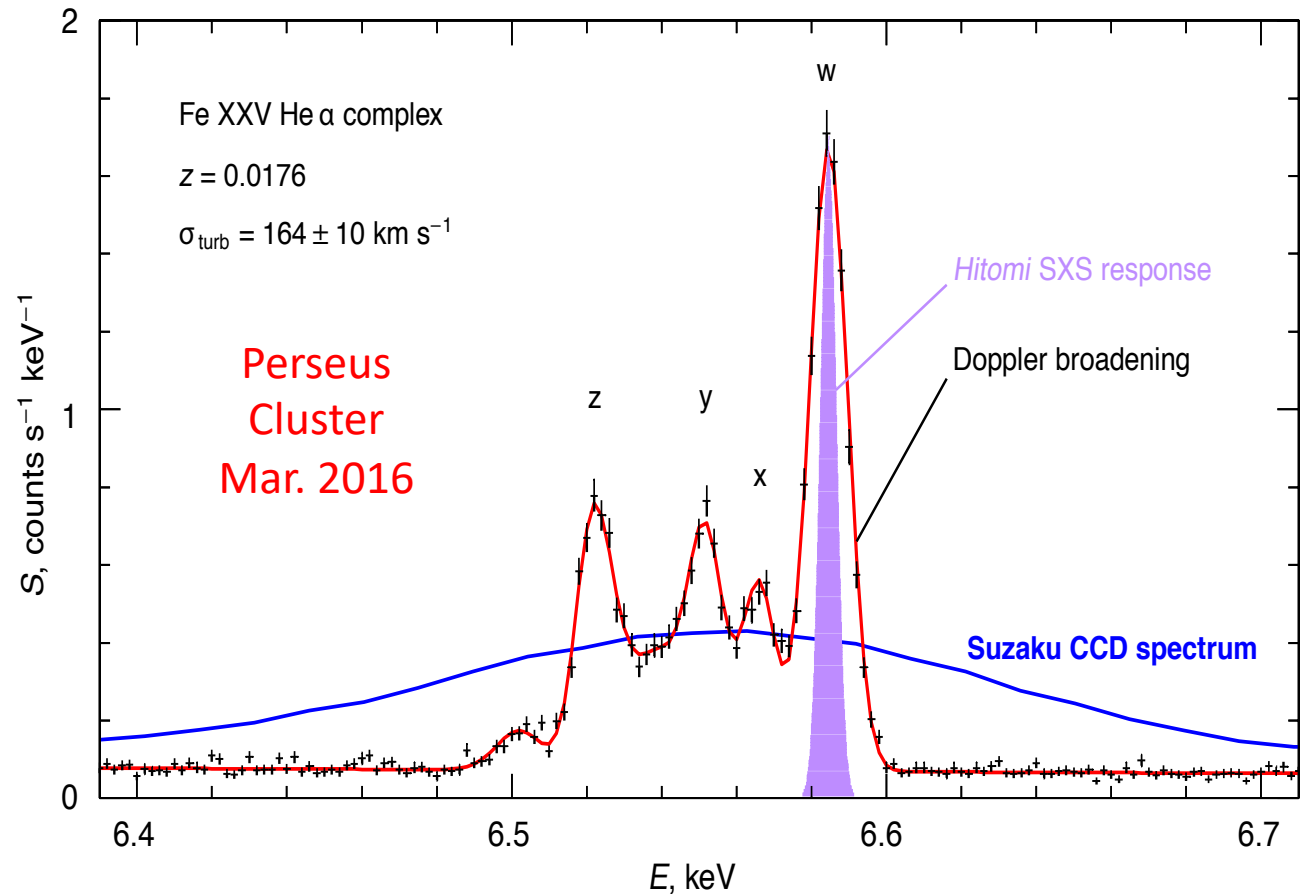
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