

the SILK ROAD PROJECT at NAOC

丝绸之路计划



ZENTRUM FÜR
ASTRONOMIE

Univ. Heidelberg



Picture:
Tian Shan
Mountain
Kazakhstan
ERSS
(R.Sp.)

Volkswagen Trilateral Project 3rd Meeting
Dynamical Mechanisms of Accretion in Galactic Nuclei
Joint Meeting with China-Kazakhstan collaboration

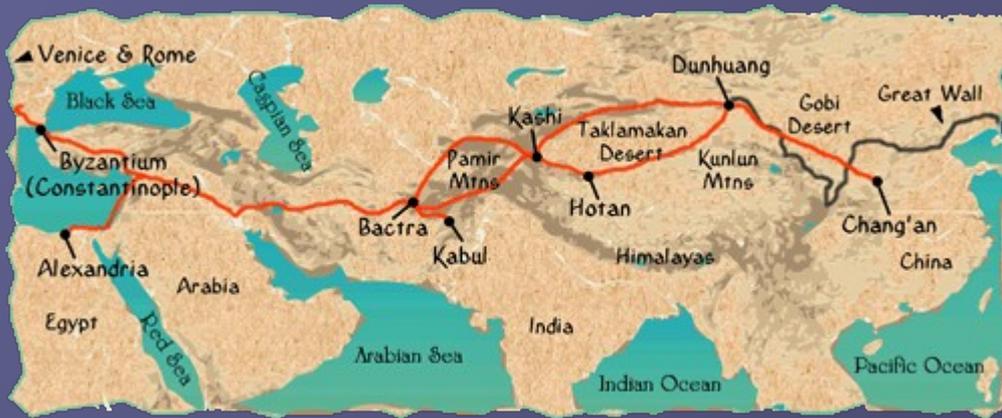
Organizers:

Rainer Spurzem (ARI/ZAH,NAOC), Andreas Just (ARI/ZAH),
Peter Berczik (MAO), Evgeni Polyachenko(INASAN), Chingis Omarov (FAA),
Bekdaulet Shukirgaliyev (NU), Li Shuo (NAOC), Thijs M.B.N. Kouwenhoven (XJTLU)



VolkswagenStiftung

Volkswagen Trilateral and Silk Road Project



Trilateral Collaboration since 2017 (-2023)

Germany – Russia – Ukraine

(ARI-ZAH Heidelberg/INASAN Moscow/MAO Kiev)

Closely connected by people and projects with

China-Kazakhstan Collaboration

(NAOC Beijing/XJTLU Suzhou/FAO Almaty/ECLNU

Nursultan City)

Soon: Chile?

Memories of Emmanuil Vilkoviski, 1990, Alma-Ata (Almaty)

Source of the energy of active galaxy nuclei and quasars

É. Ya. Vil'koviskii

Astrophysical Institute, Kazakh Academy of Sciences, Alma-Ata

(Submitted January 21, 1975)

Pis'ma Astron. Zh. 1, No. 7, 8–12 (July 1975)

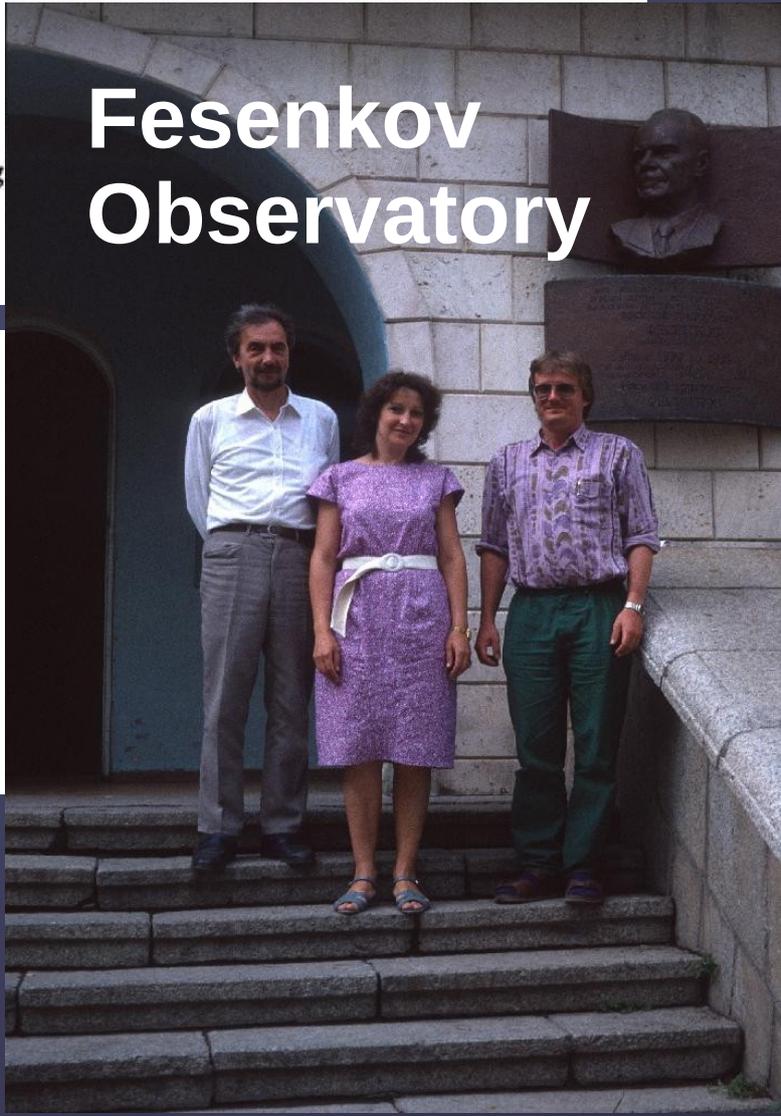
The activity in the nuclei of galaxies and quasars can be explained through galaxy and a gaseous body at its center.

PACS numbers: 98.20.Di, 98.60.Jk

[1975SVAL...1..137V]

2. MOTION OF STARS WITHIN THE SUPERSTAR

As a lower estimate on the power of energy dissipation for stars moving inside the superstar we shall adopt, following Bisnovatyι-Kogan and Syunyaev,³ $w = \alpha \rho_g v^3 \pi r_s^2$, where ρ_g is the gas density, v is the velocity of a star, r_s is its radius, and the parameter α takes into account

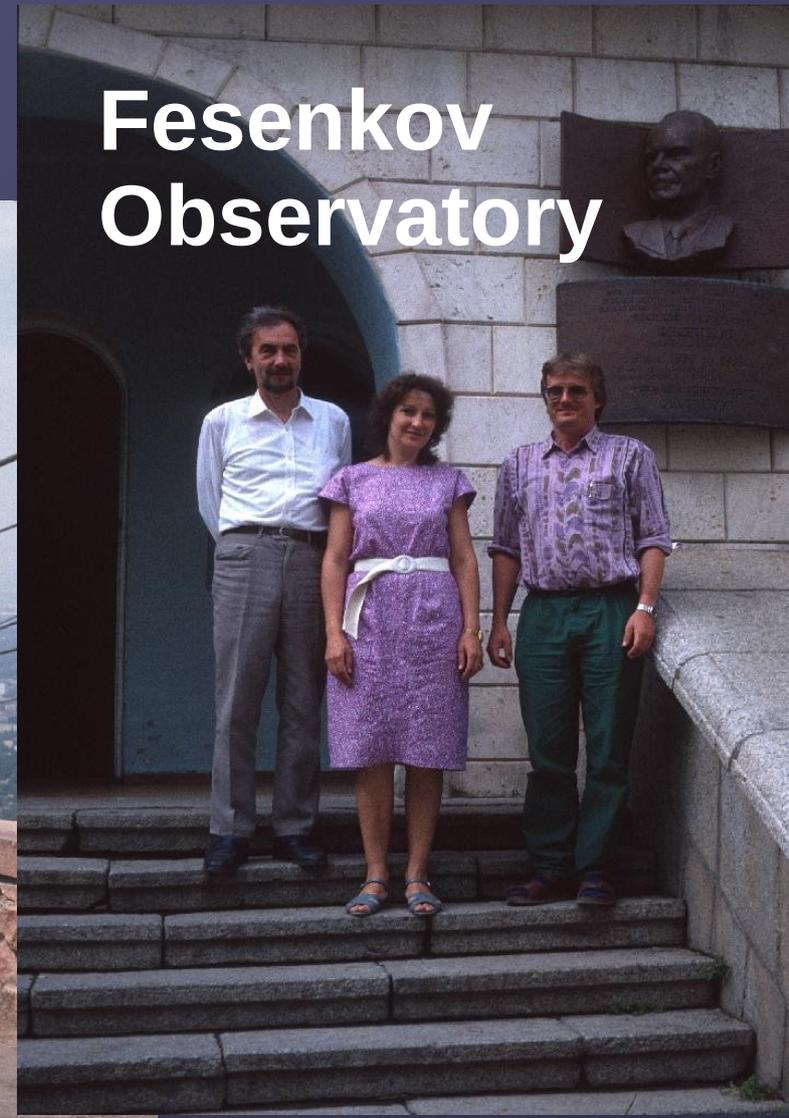


Fesenkov Observatory

Memories of Emmanuil Vilkoviski, 1990, Alma-Ata (Almaty)



Airport



Fesenkov
Observatory



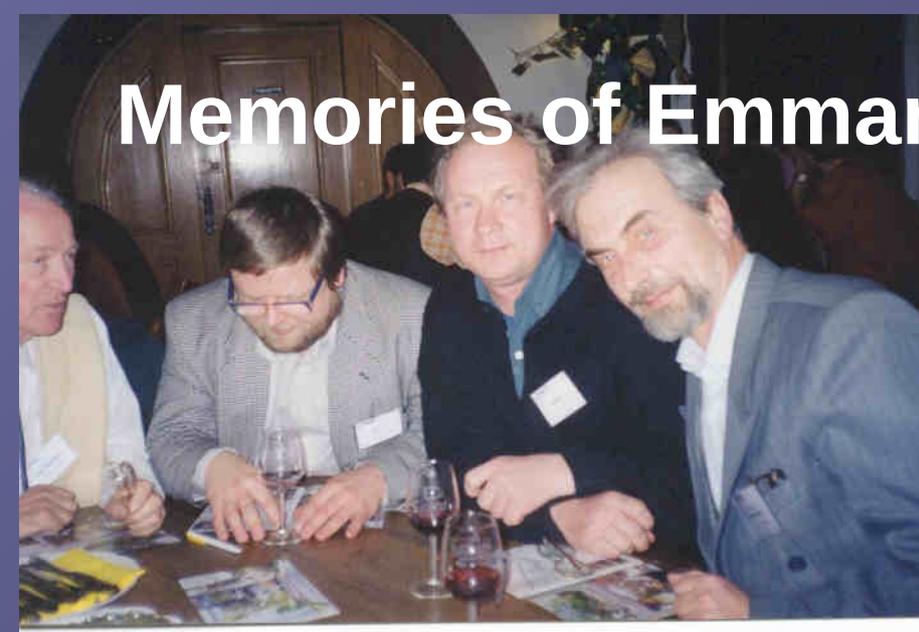
Kok-Tebe

Memories of Emmanuil Vilkoviski, ~1994, Cambridge University, UK



**With Pavel Kroupa,
Sverre Aarseth,
Chris Tout, R.Sp.**

Memories of Emmanuil Vilkoviski, star2000, Heidelberg



E. Vilkoviski



D. Lynden-Bell

S. Aarseth

D.C. Heggie

J. Makino

R. Wielen

Memories of Emmanuil Vilkoviski, 2004, Mountain Walk to Shymbulak, Almaty



Memories of Emmanuil Vilkovski, 2008, near Heidelberg

