

SUMMARY OF PRESENTATIONS PERTAINING TO LABORATORY PLASMAS

Abhay K. Ram

*Plasma Science and Fusion Center
Massachusetts Institute of Technology
Cambridge, MA 02139. U.S.A.*

**Modern Challenges in Nonlinear
Plasma Physics
Conference Honoring the Career of
Dennis Papadopoulos
June 15 - 19, 2009
Halkidiki, Greece**

APPRECIATION AND GRATITUDE

- A. Anastasiadis
- I. Chatziantonaki
- I. Daglis
- T. Pisokas
- H. Isliker
- C. Tsironis
- D. Vassiliadis
- L. Vlahos
- D. Papadopoulos

STATISTICAL APPROACHES

R. Dendy:

Issues at the interface of space and fusion plasmas

- I. Roth
- S. Chapman
- S. Sharma
- G. Balasis

Th. Pisokas : ITG driven turbulence

STATISTICAL APPROACHES

- I. Sandberg:
Universal statistical properties of edge transport.
- H. Isliker:
SOC for magnetic field in fusion devices.

THE BUILDING BLOCKS OF NONLINEAR PLASMAS

- J. Pickett: Electrostatic solitary waves
- J. Samson: High- β plasma disruptions

POSTERS RELEVANT TO LABORATORY PLASMAS

- C. Tsironis:
Quasilinear versus nonlinear modelling of EC wave scattering by edge turbulence.
- J. Cook:
Particle-in-cell simulations of ion cyclotron emissions.

TALKS RELEVANT TO LABORATORY PLASMAS

- **P. Bernhardt:**
Excitation of low frequency electrostatic waves.
- **G. Ganguli:**
Evolution of whistler turbulence.
- **M. Lampe:**
Whistler triggering associated with a discontinuity.

MAGNETIC RECONNECTION

Laboratory Experiments:

W. Gekelman: Plasma current systems of flux ropes and Alfvén waves

Computer Simulations:

- **H. Karimabadi**
- **J. Huba**

Theory/Simulations:

- **E. Priest:** Nonlinear plasma physics
- **J. Drake:** Particle acceleration



*The
Greek Re-Connection*

Gene



as

Dennis

Leonard



as

Eric Priest

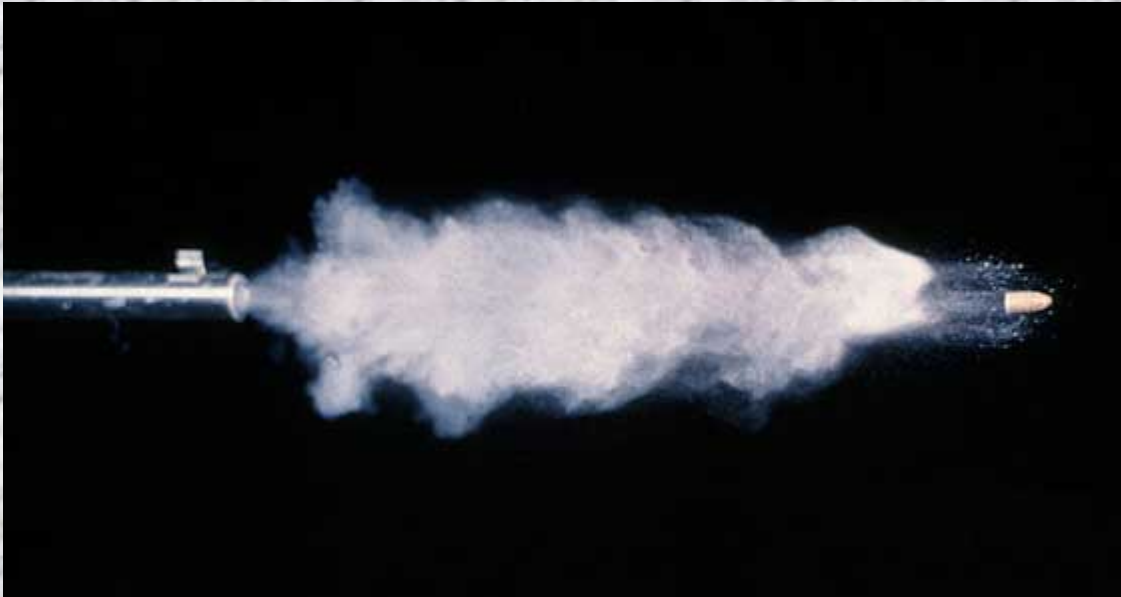


Car chases

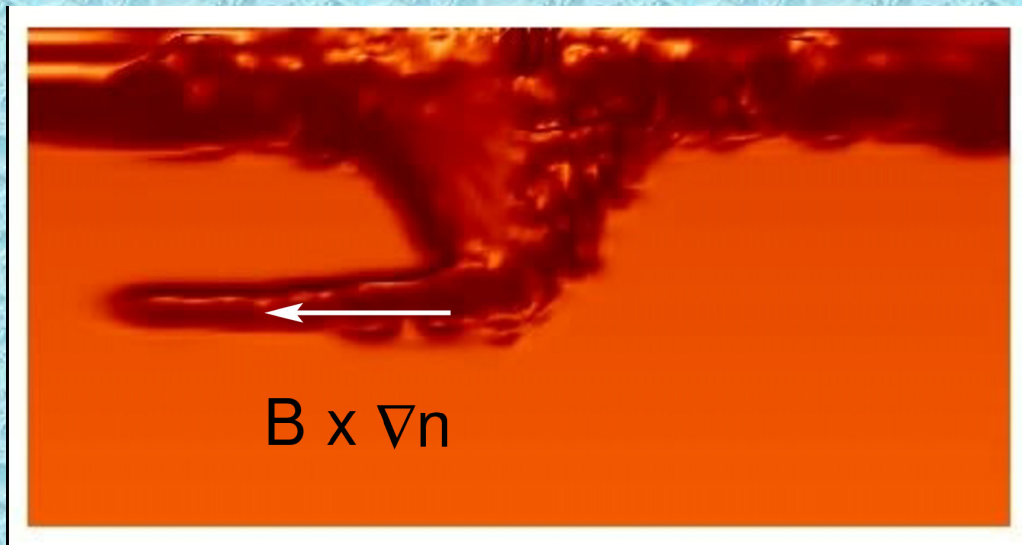
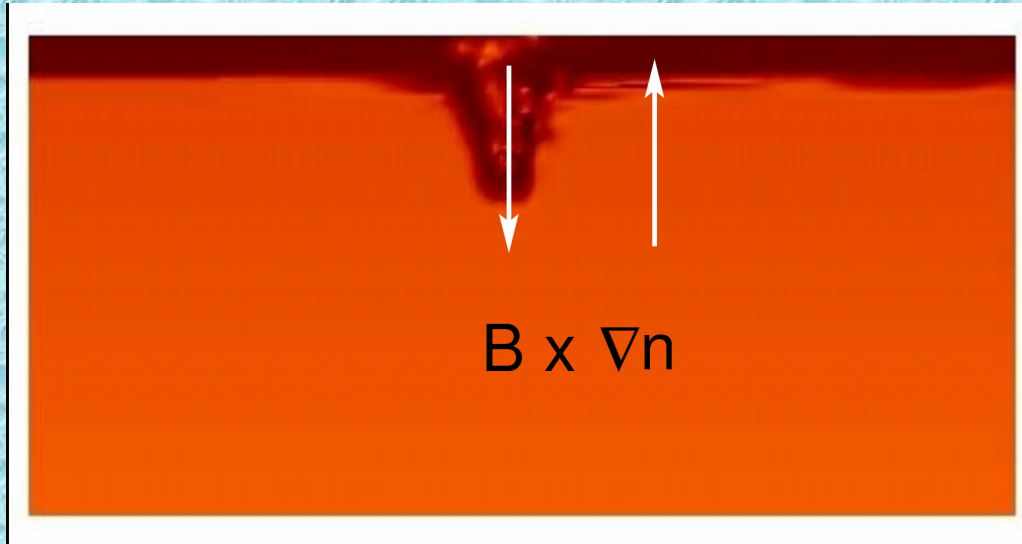
particle accelerations

by

Jim Drake



Dripping with suspense

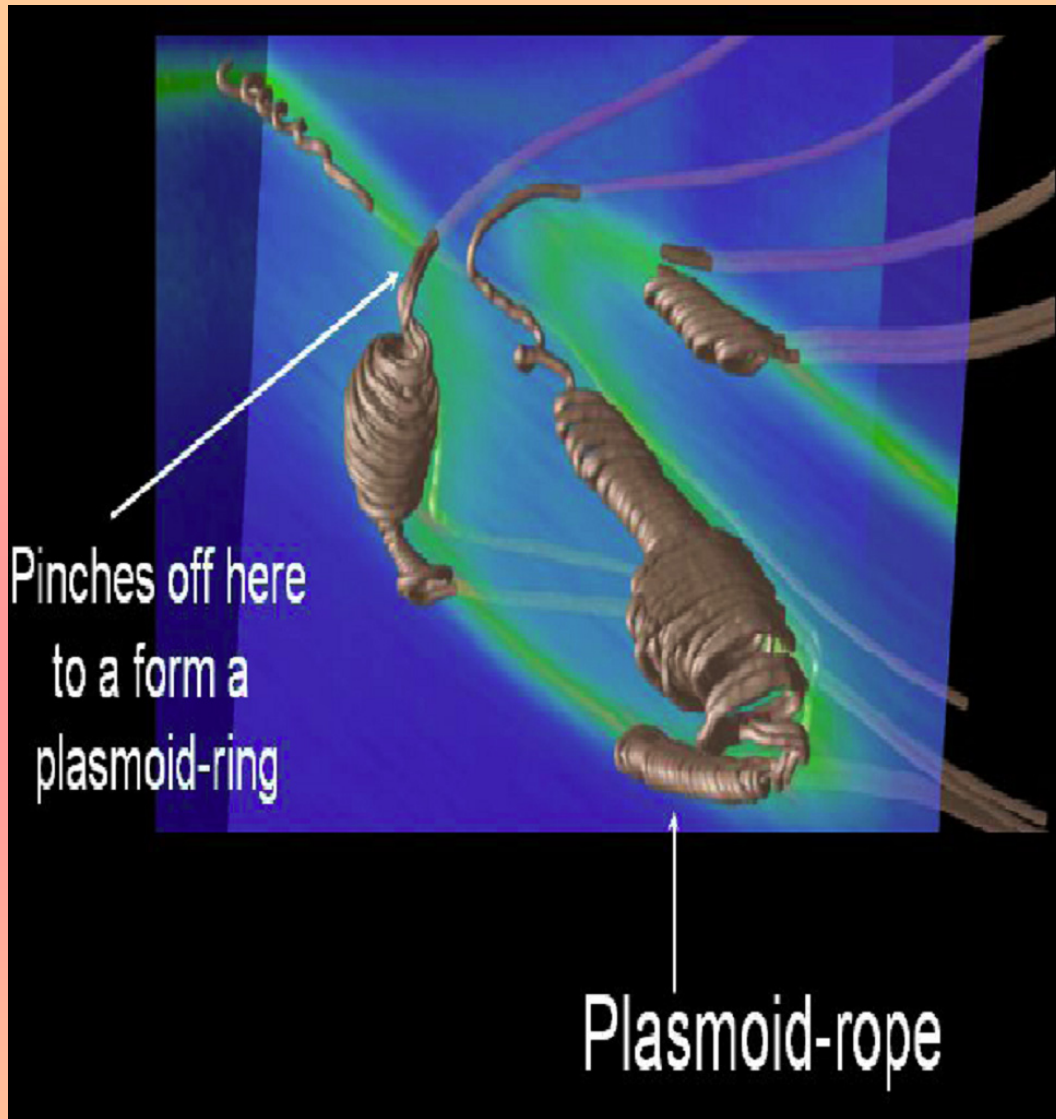


Story line
by
J. Huba

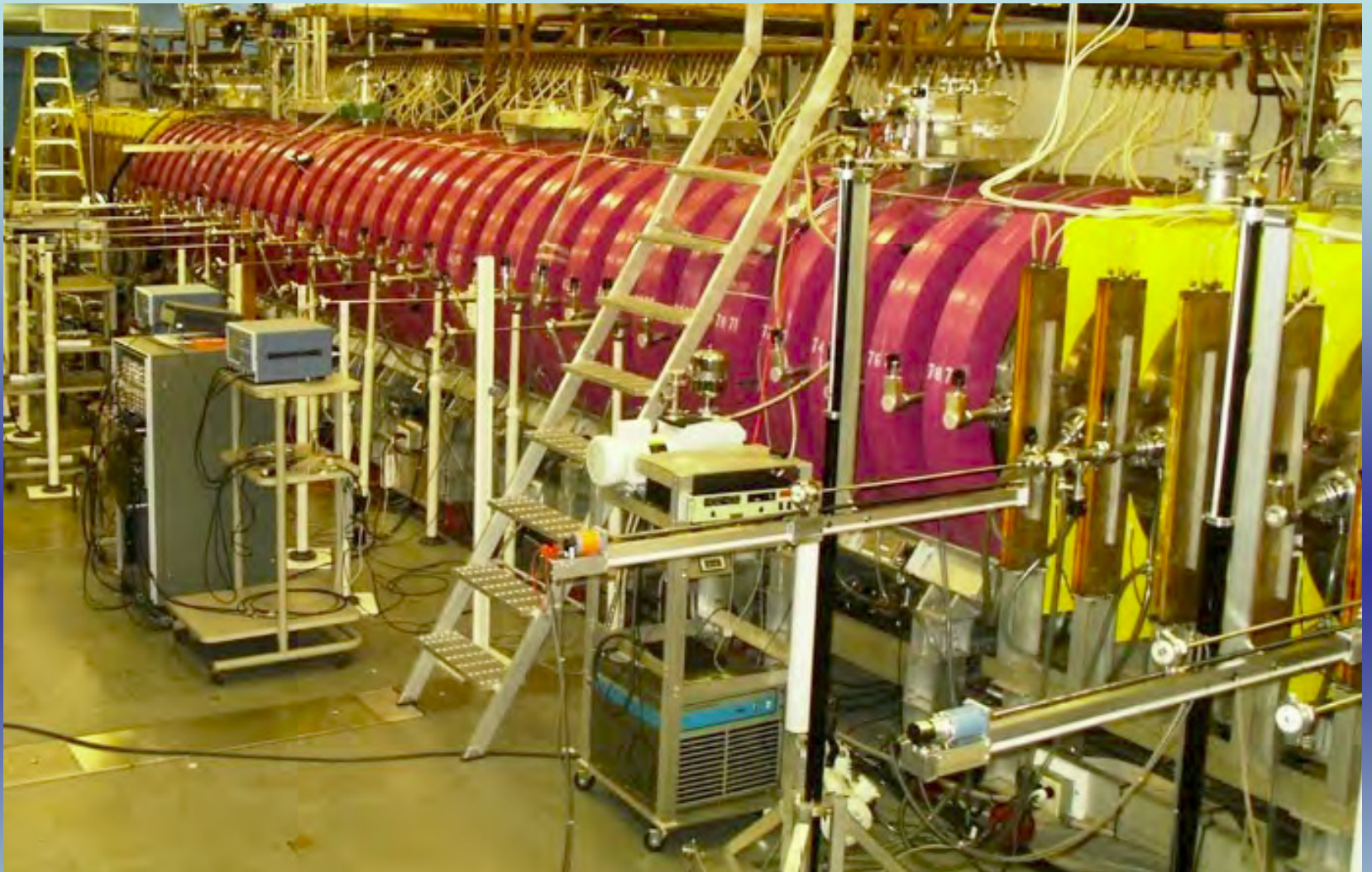
Photography

H. Karimabadi



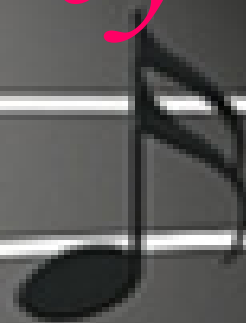
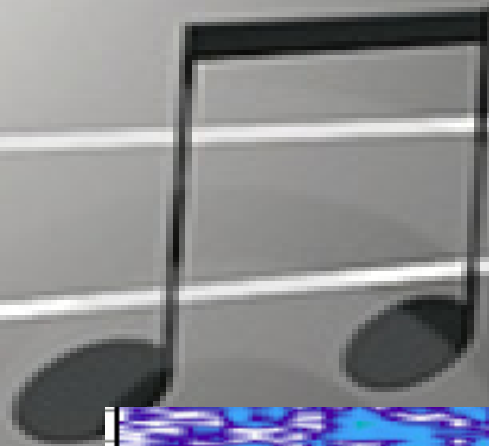


Vibrant
aliens

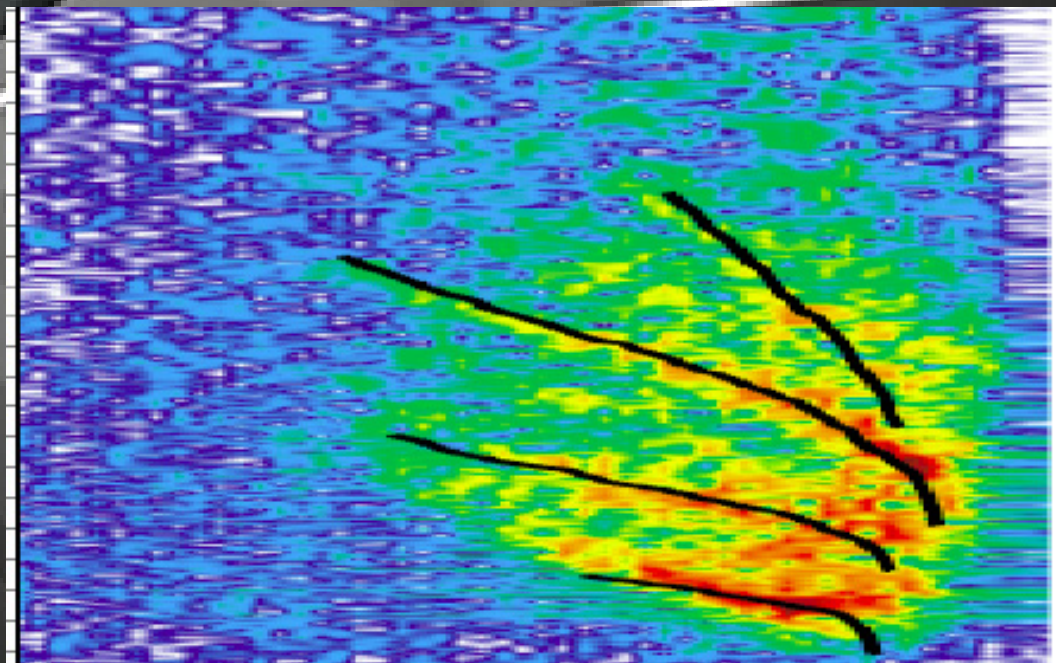


Underground weapons plant
Dr. Gekelman

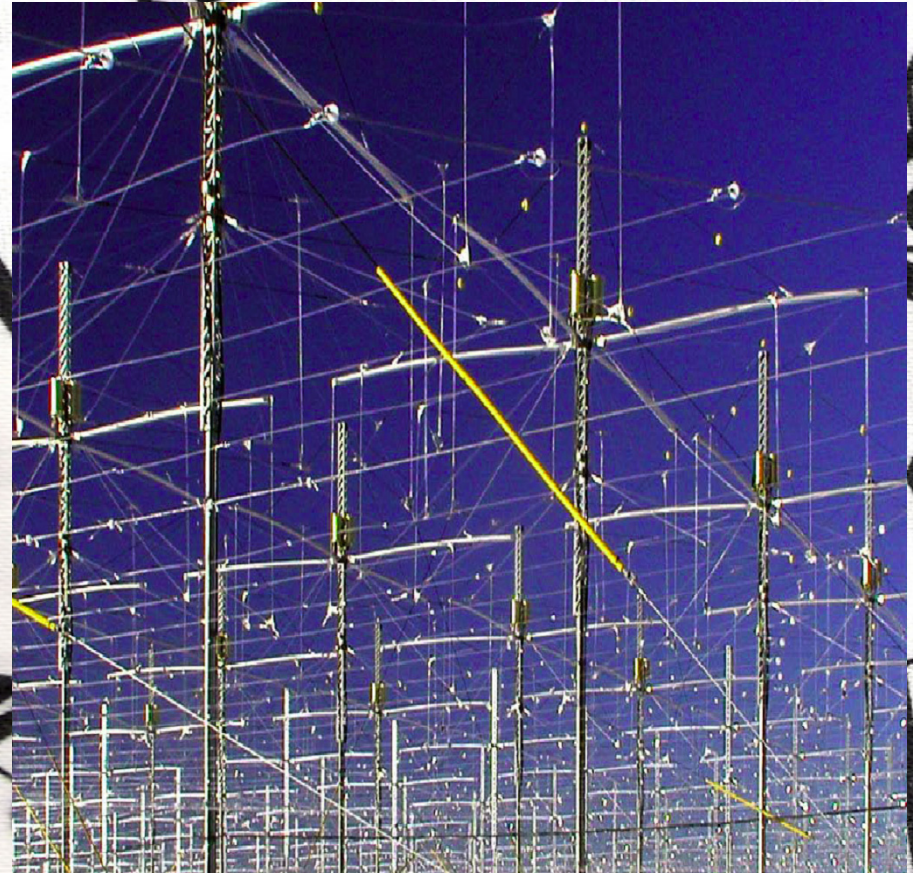
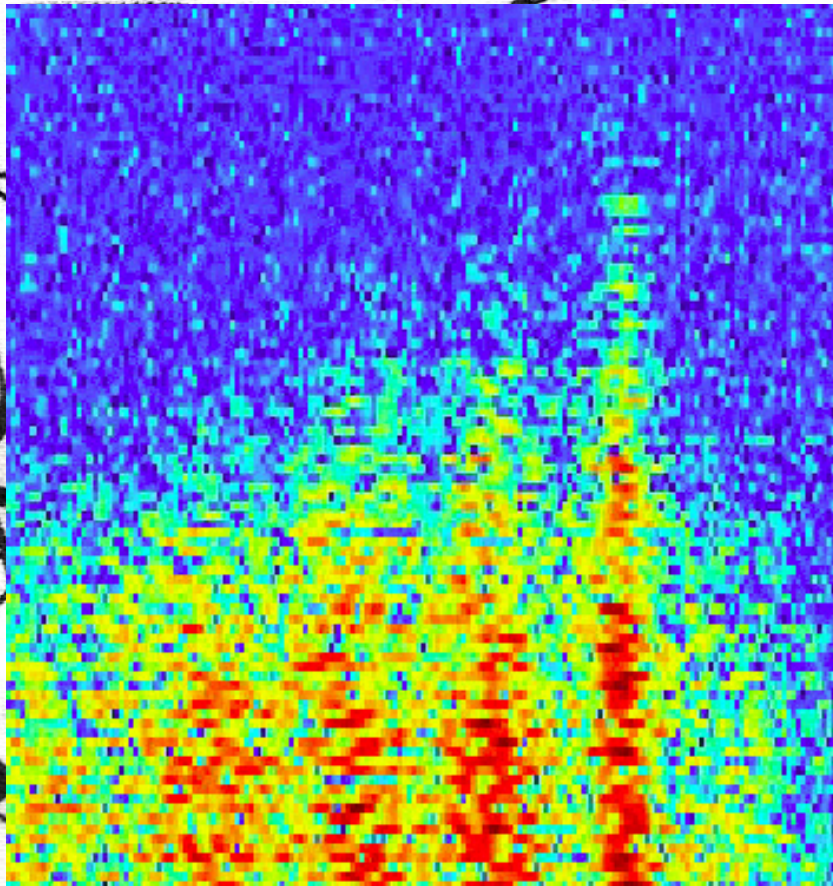
Chorus directed by



Y. Omura



Music by



P. Bernhardt



A.T.Y. Lui

*shooting down
any misconceived ideas*



The

Greek Re-Connection

produced by

Dennis Papadopoulos