

## SOME ASPECTS OF ASTRONOMY VERSUS SPORT

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Before going to the reports I would like to make some introductory remarks. As all of us know, Munich is an olympic town. As a testimony of that fact can serve the bamboo-cane used by the speakers as index for slides.

Both sport and astronomy have ancient traditions and much common features.

Olympic principles: Citius, altius, fortius! mean efforts to gain further progress in extensive (R), intensive (Ṙ) and accelerative aspects. Thus, olympic principles can be formulated as an extremum for R, Ṙ, R̈.

Astronomical principles: Computers, Instruments, Astronomers guarantee the very same progress by giant telescopes and high sensitivity devices with spectral range from  $\gamma$ -rays to radio waves (R), by high speed computers, hardware and software included (Ṙ) and by highly intelligent brains (R̈) as a very soft ware.

As you see very tightly linked to olympic principles are also the speakers's principles; slowly, distinctly, loudly!

This means that all speakers are asked :

- 1) to try to maximize the signal to noise ratio whereby only Oxford English is considered as a signal,
- 2) to accomodate their gigabytes per second output facilities to a decabyte per second input needed for translation to different software languages and for filtering,
- 3) to speak forte fortissimo. Thus, speakers principles can be quantitatively formulated as

$$\text{Decabyte/sec, } \frac{S_{\text{Oxford English}}}{N} \rightarrow \infty, \text{ ff } \div \text{ fff.}$$

(These introductory remarks were given by Dr. Sapar as chairman of the session on Thursday morning (April 9))