



ISTITUTO DI ISTRUZIONE SUPERIORE

ALDO MORO

Liceo Scientifico

Istituto tecnico industriale

Via Gallo Pecca 4/6 10086

RIVAROLO CANAVESE

ANNO SCOLASTICO 2013-2014

ESAME DI STATO

Filippo Valle

Analisi di raggi cosmici mediante supercomputer

Classe VBs - P.N.I.

Sezione Scientifica

Introduzione

Supercomputer e Raggi cosmici



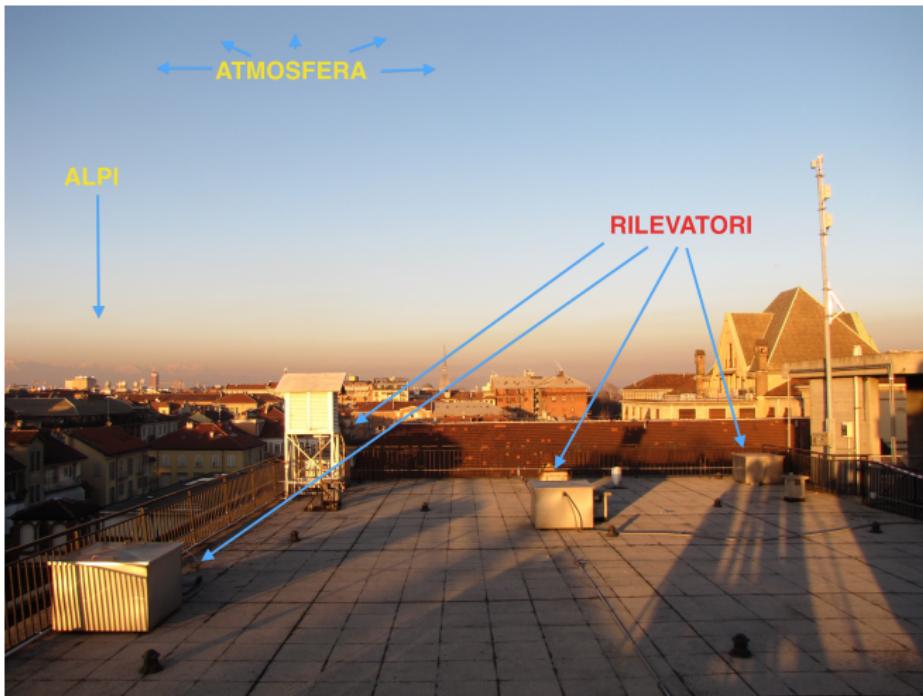
Supercomputer *Castor*

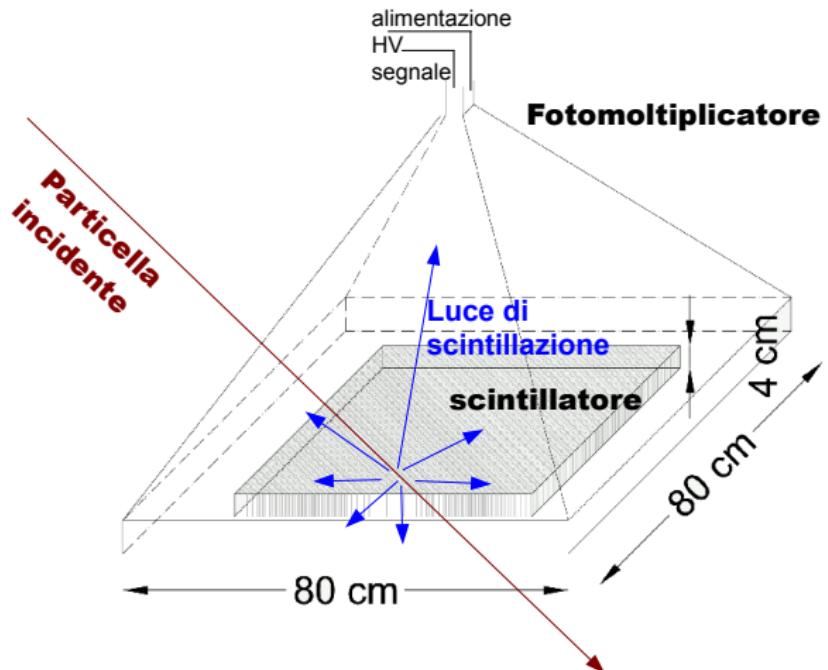


Sciame di *raggi cosmici*

Esperienza

Torino

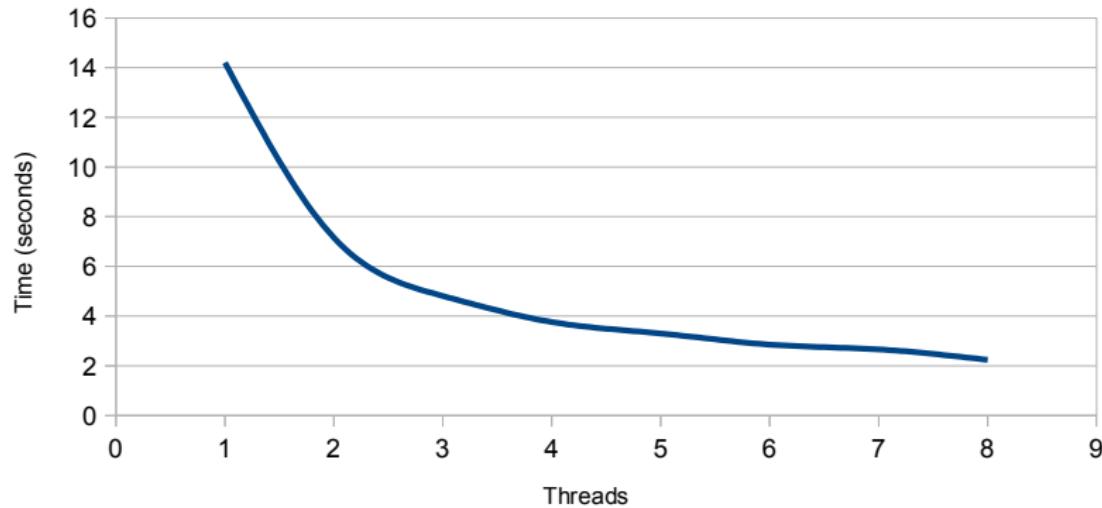






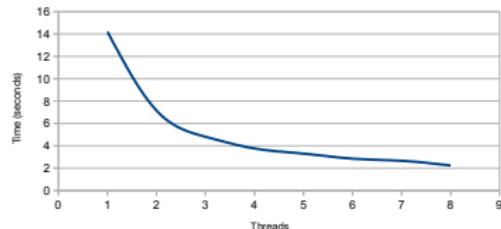
Calcolo Parallelo

SpeedUp

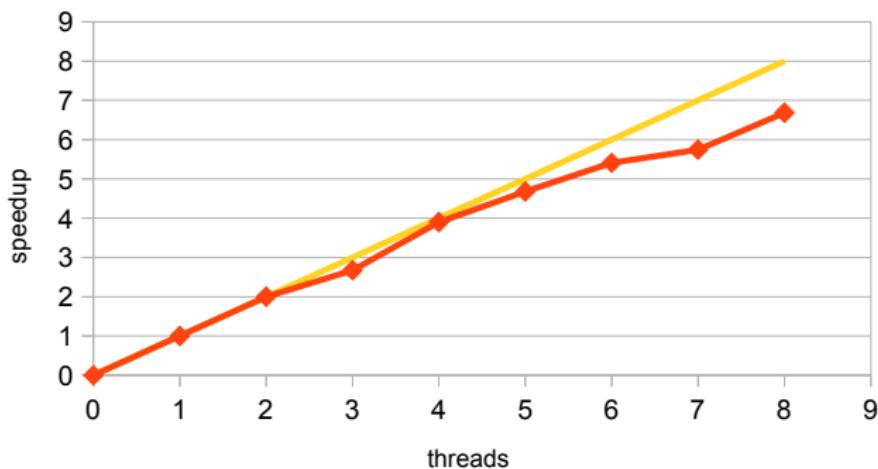


Calcolo Parallelo

SpeedUp



Threads/Speedup



Metodi MonteCarlo

Borsa

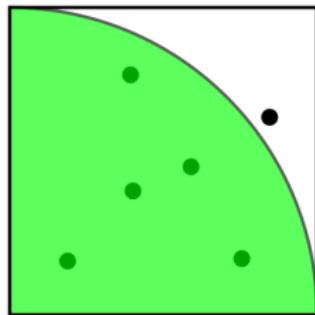


Calcolare
Pigreco

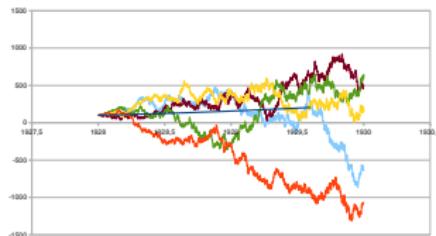
Simulazioni MonteCarlo per la Borsa

Metodi MonteCarlo

Borsa



Calcolare
Pigreco



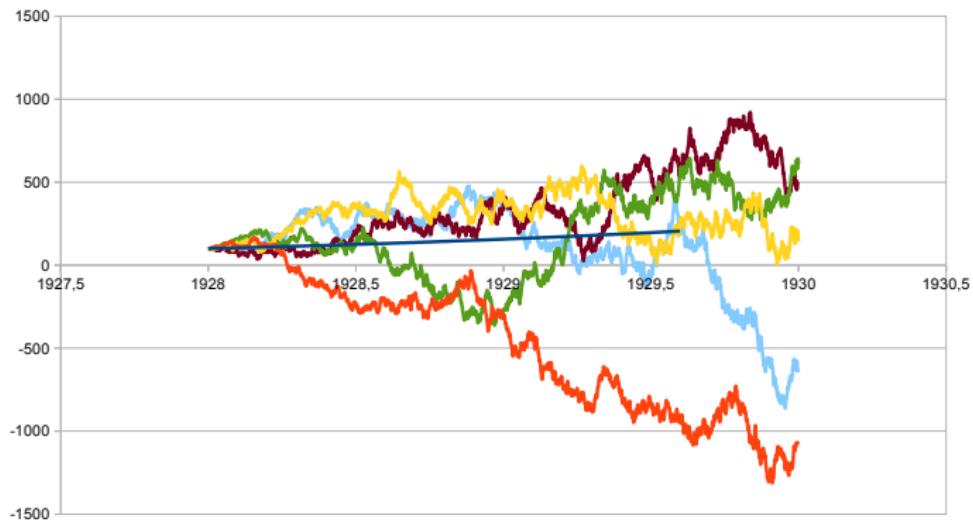
Simulazioni MonteCarlo per la Borsa

Metodi MonteCarlo

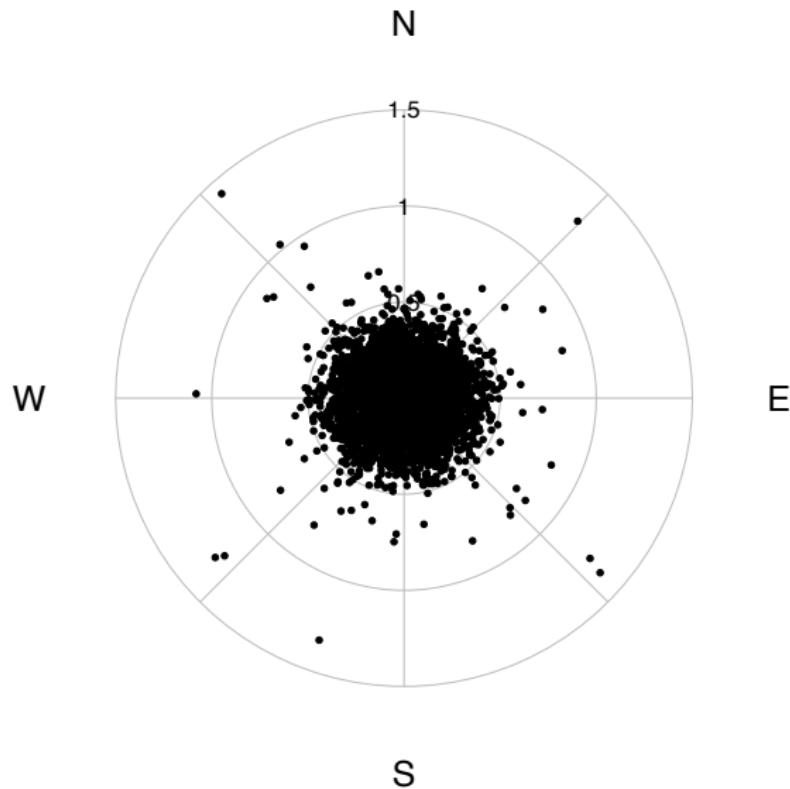
Borsa



Calcolare
Pigreco

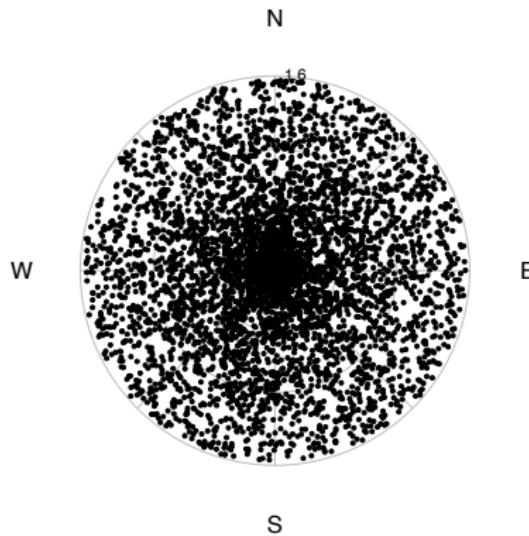


Simulazioni MonteCarlo per l'andamento della Borsa nel biennio
1928-1930



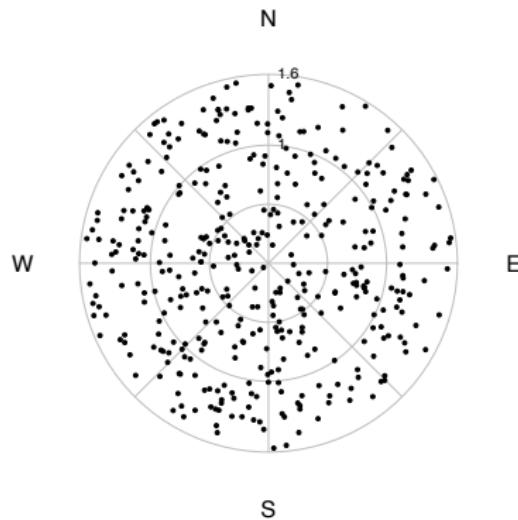
Simulazioni

Uniforme



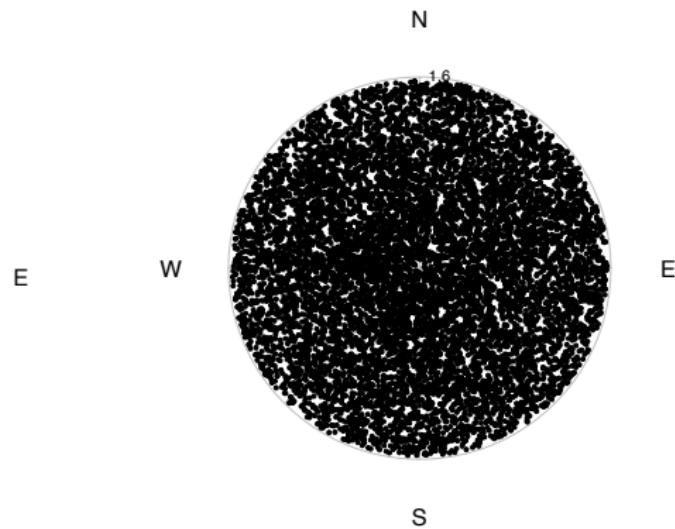
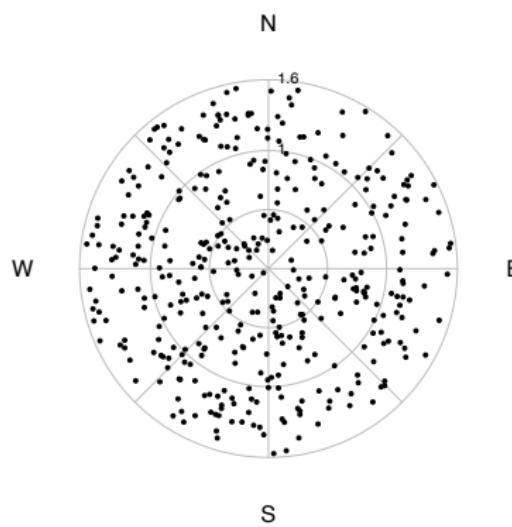
Simulazioni

Uniforme



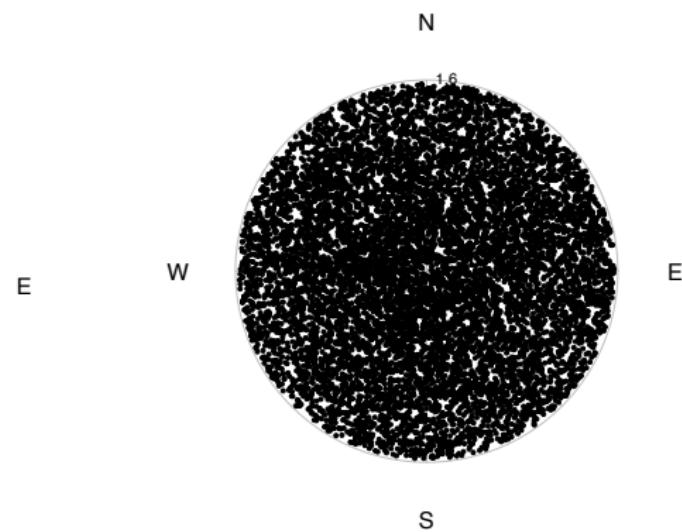
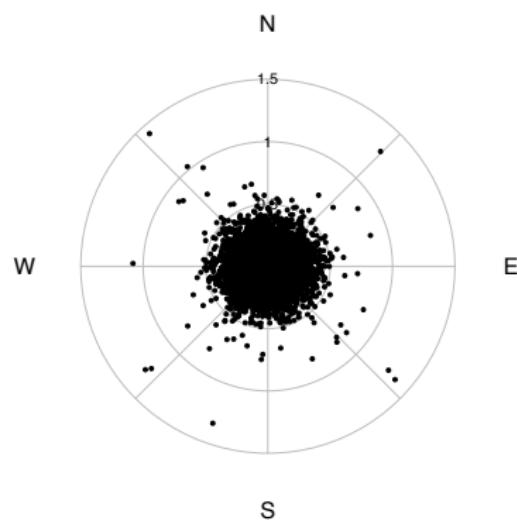
Simulazioni

Uniforme



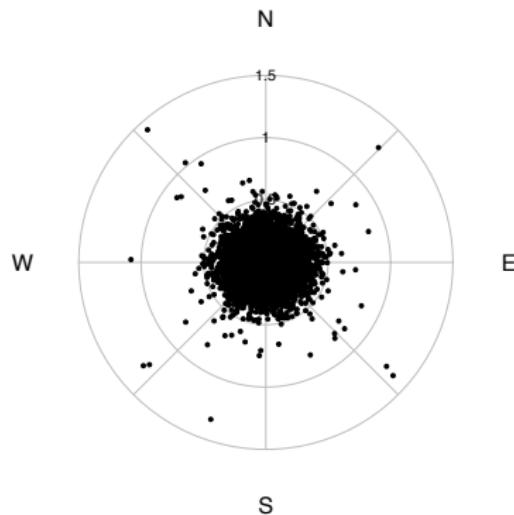
Simulazioni

Uniforme



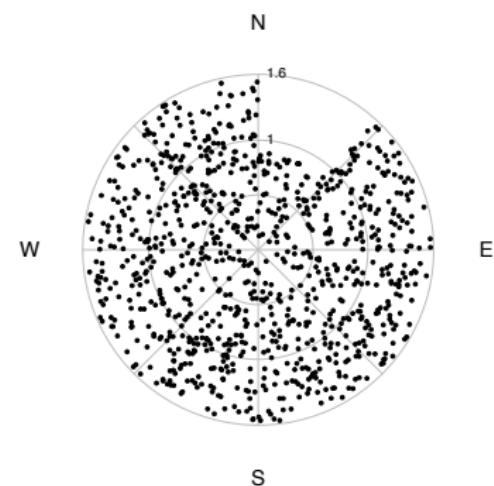
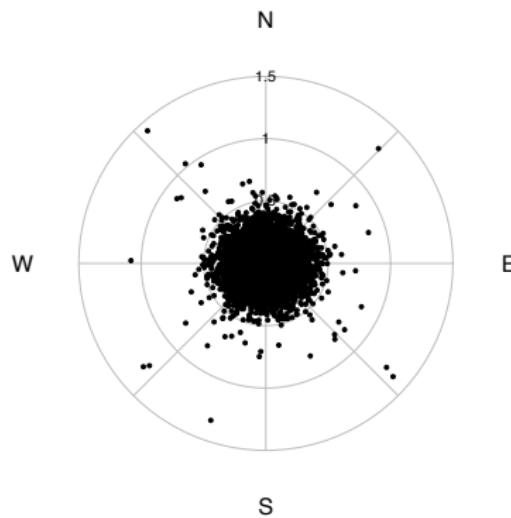
Simulazioni

Montagne



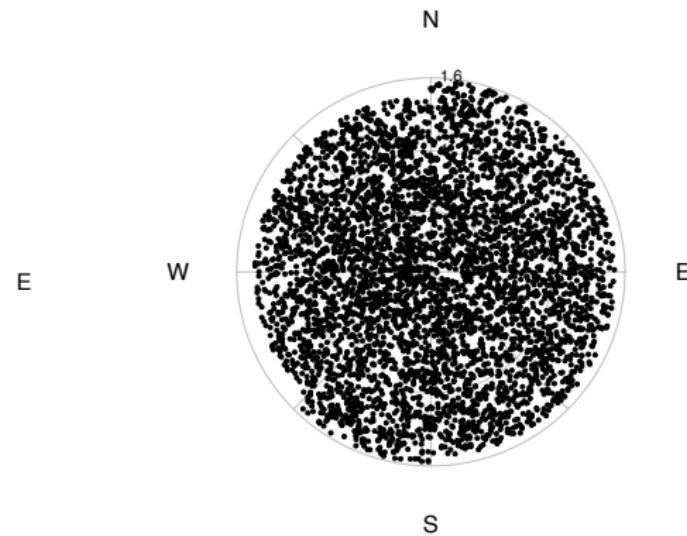
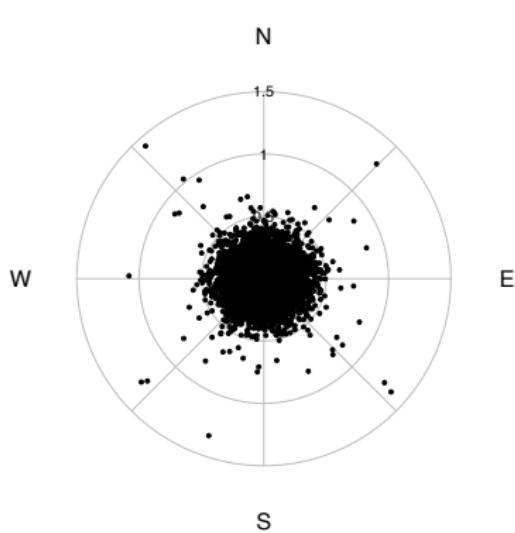
Simulazioni

Montagne



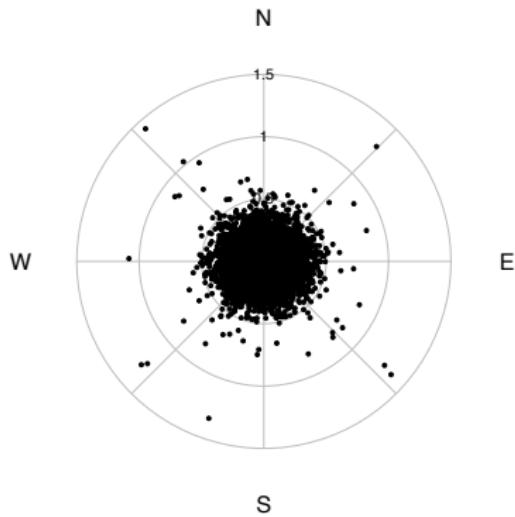
Simulazioni

Montagne



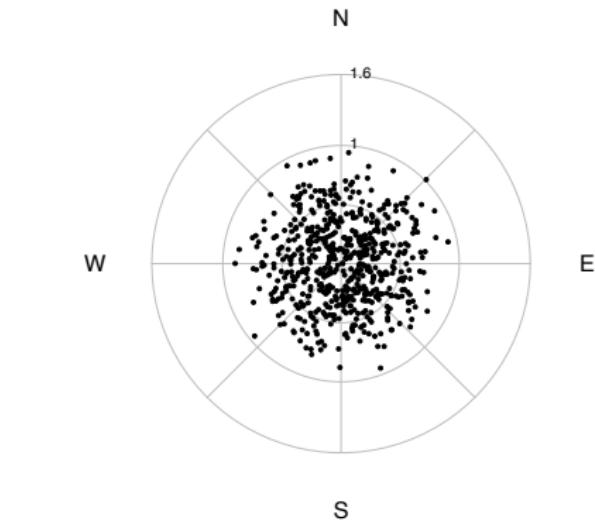
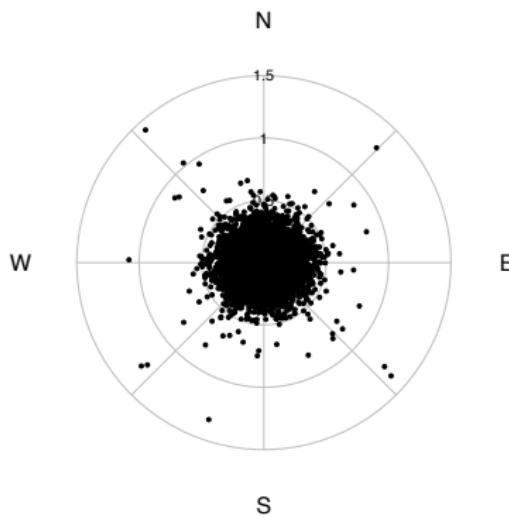
Simulazioni

Atmosfera



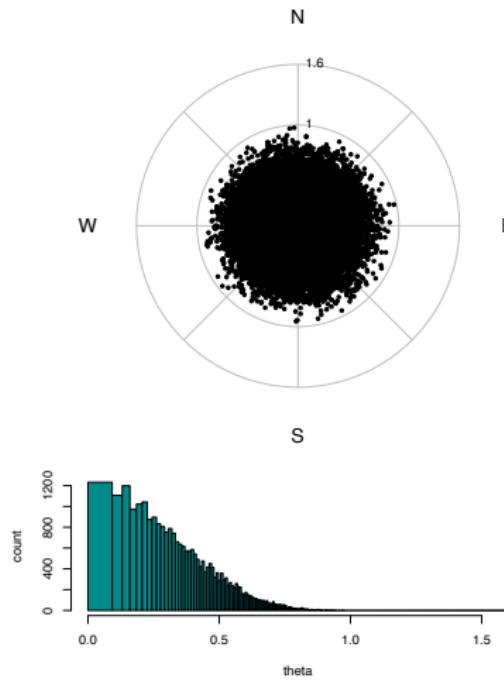
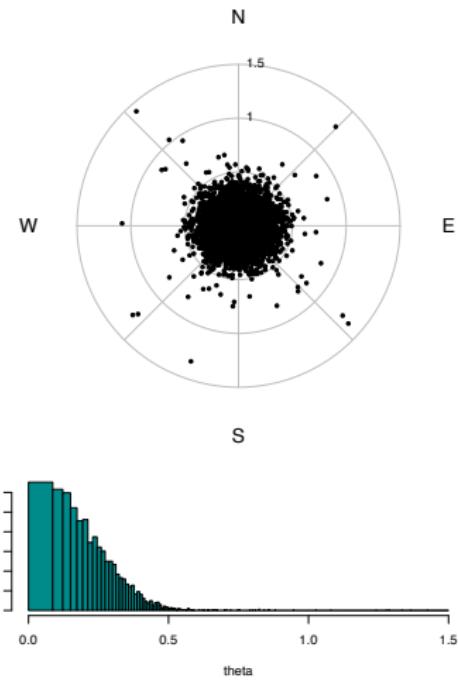
Simulazioni

Atmosfera



Simulazioni

Completa



Albert Einstein

I **computer** sono incredibilmente **veloci, accurati e stupidi.**

Gli **uomini** sono incredibilmente **lenti, inaccurati e intelligenti.**

L'insieme dei due costituisce una **forza incalcolabile.**