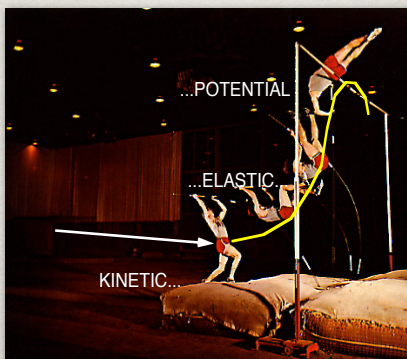
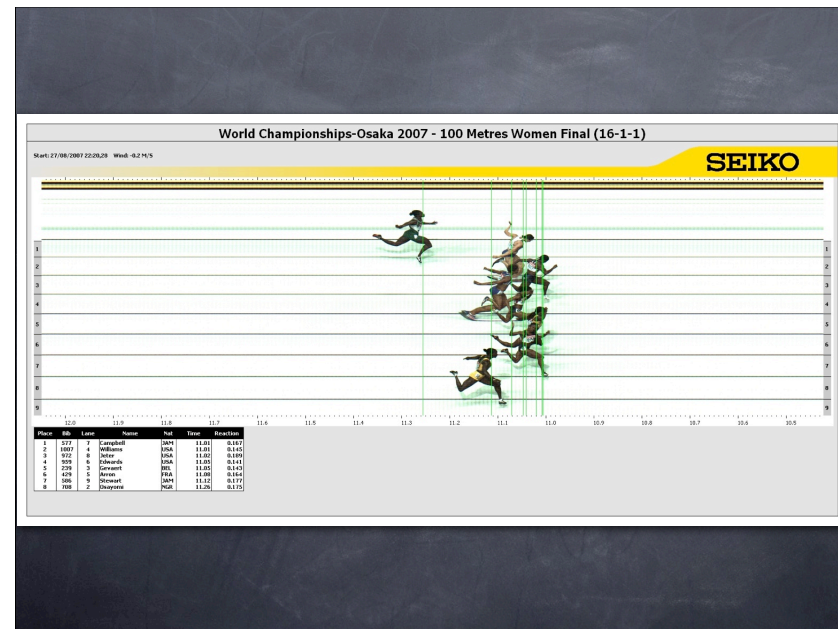


Biomeccanica II

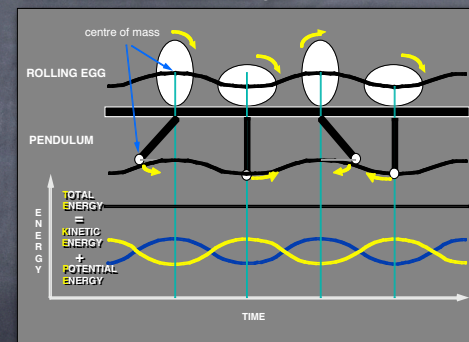
Lez. BM7

Mercoledì 14 Novembre 2007 14÷15:30

Luca P. Ardigò



WALKING: a pendulum-like gait



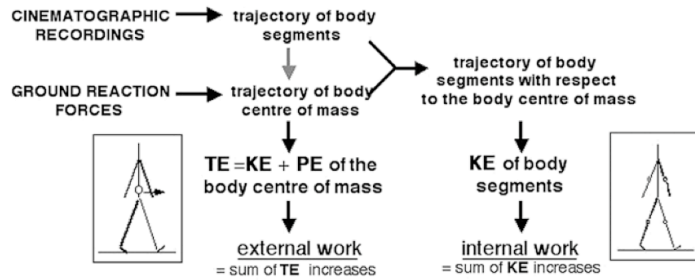
EXPERIMENTAL MEASUREMENT OF THE MECHANICAL WORK OF LOCOMOTION

Kinetic Energy \propto speed²

Potential Energy \propto vertical position

Total Energy: $TE = KE + PE$

Work = ΔTE

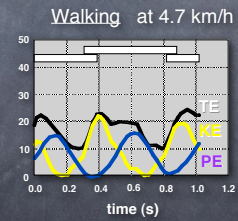


$$W_{tot} = W_{ext} + W_{int}$$

method by Cavagna and Kaneko, J. Physiol. 1977
 modified by Minetti et al., J. Physiol. 1993

gait:
 - WALKING

locomotion paradigm:
 - (INVERTED) PENDULUM



Scuola di dottorato in 'Scienze biomediche traslazionali' (XXII Ciclo)
 Corso di dottorato in 'Scienze dell'esercizio fisico e del movimento umano'



**TI INTERESSA UN'ANALISI
 DELLA TUA POSTURA
 IN PROVE DI LOCOMOZIONE?**

SE SI? MASCHIO E/O FEMMINA, DI OGNI ETA',
 CONTATTAMI
 Francesca Nardello
 Tel. 045/8425139; 3395699587
 Mail: nardfra@yahoo.it



MI RACCOMANDO: SPARGI LA VOCE!!!!