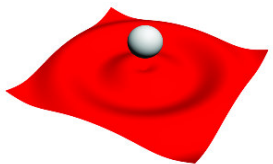


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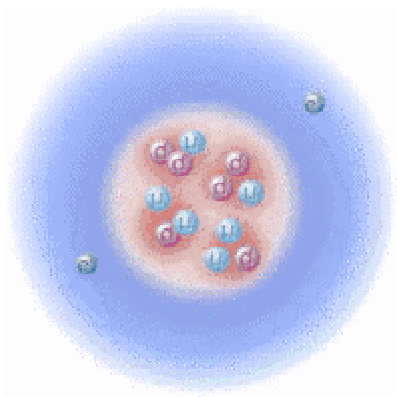
Temperatura, leggi dei gas, proprietà termiche dei materiali conservazione dell'energia



dsfa

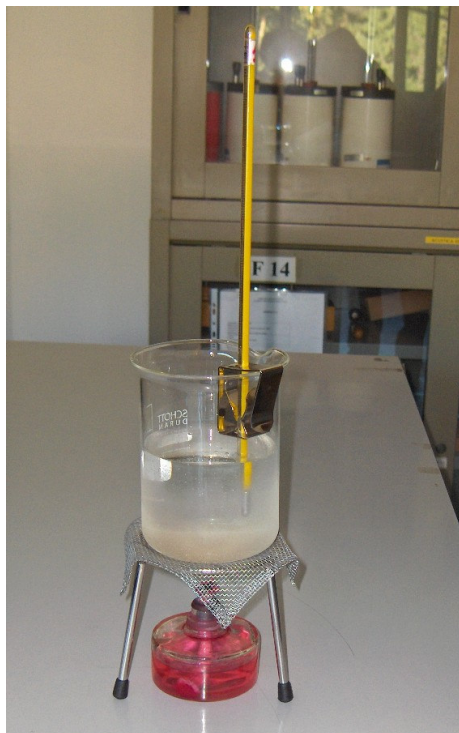
Antonio Emanuele

Dipartimento di Scienze Fisiche e Astronomiche



La Temperatura

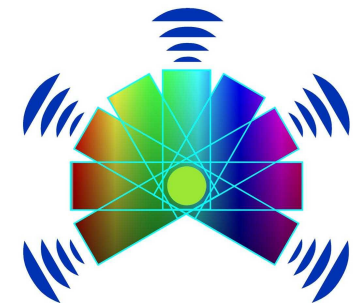
E' la grandezza chiave di tutta la termodinamica



Come si misura?



Come si tara un termometro?

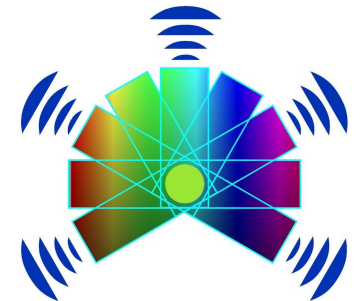


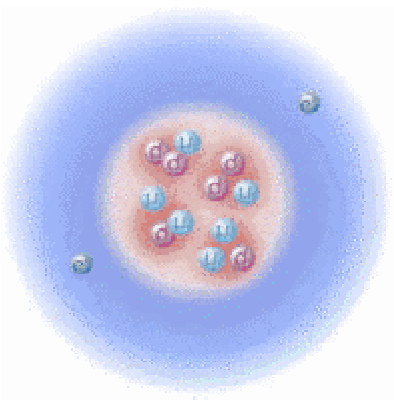
La conservazione dell'energia



Il Primo Principio della
Termodinamica

Verifica sperimentale
dell'equivalenza tra lavoro
meccanico e calore.

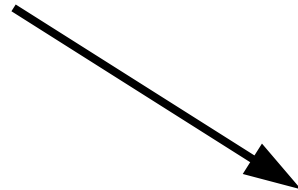




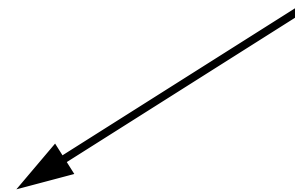
Proprietà termiche dei materiali

Leggi dei gas

Dilatazione termica

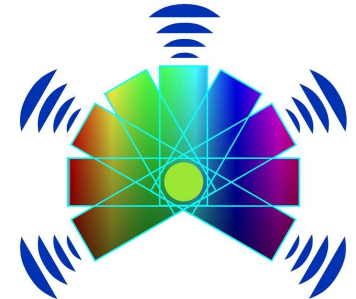


Calore specifico



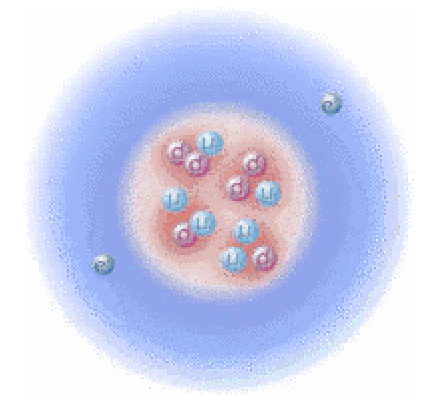
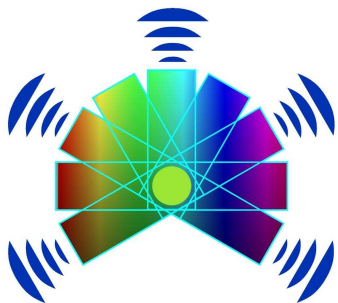
Uno sguardo alle proprietà strutturali dei materiali

Una particolare “lente di ingrandimento”



Lab di termodinamica

-  **Misura di calori specifici**
-  **Studio delle leggi dei gas**
-  **Dilatazione termica**
-  **Uno sguardo alla “energia solare”**



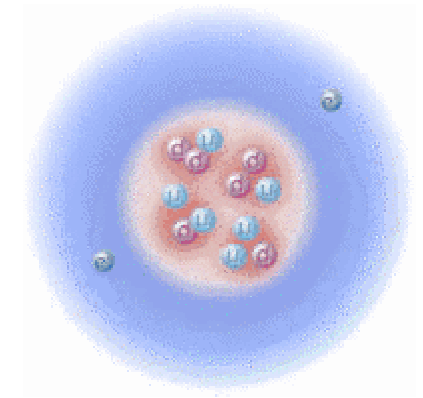
Le leggi dei gas

La legge di Boyle-Mariotte

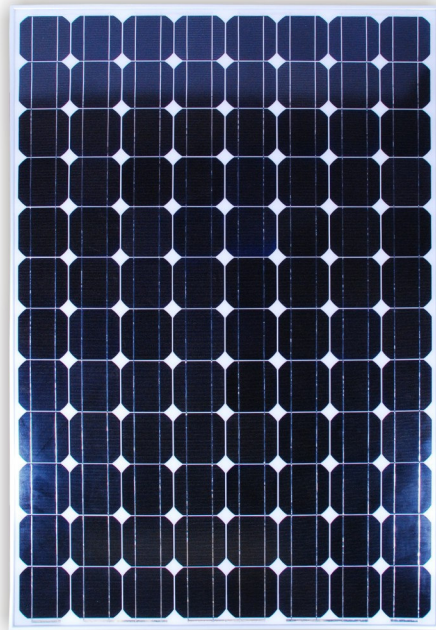


Pressione \times Volume = costante

Il Laboratorio di Fisica e le “*Energie Alternative*”



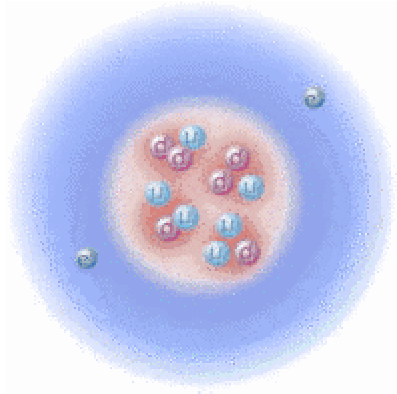
Energia dal sole:



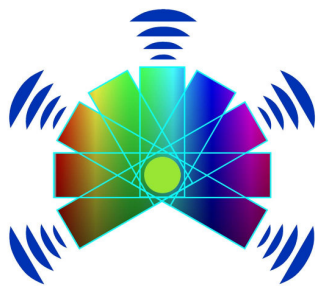
fotovoltaica



termico



Il Laboratorio Didattico per la Fisica - LaDiF



PLS3 - Palermo 15/12/2010