

Per quanto riguarda l'Int. di volume

$$\int_{B(x, \pi)} w(y) dV(y) = \int_0^{\pi} \left( \int_{\partial B(x, \rho)} w(y) dS(y) \right) d\rho$$

$$= \int_0^{\pi} |\partial B(x, \rho)| \left( \int_{\partial B(x, \rho)} w(y) dS(y) \right) d\rho$$

"  
"  $w(x)$  per la formula precedente.

$$= w(x) \int_0^{\pi} |\partial B(x, \rho)| d\rho = w(x) \int_{\partial B(x, \pi)} dS(y)$$

$$= w(x) |B(x, \pi)|$$