i.e. $\int^b f(x) dx =$ **n**: Count hits nhit as number of points "Hit-or-miss MC" -- call p= , uncertainty in I is Useful for e.g. wout area of Note: Ratio of 4 E.g. areas is π = I = Area = where q(x,y) = Sum = O do i=1, N x: = **y**: = if () then endif enddo area =

MC Approach #2 "Sample Mean Method"
Recall definition for

$$> = -ave. value of$$

 $f(x)$
 $f(x)$
 $f(x)$
 $f(x) = -ave. value of$
 $f(x)$
 $f(x) = -ave. value of$
 $f($



Ti→j = Two parts to Tinj : ×i > j Acci->j Detailed balance P: Tiaj = Pj Tjai - construct algor: the such that e.g. trial particle coordinate works, since, say, generating x; = from x:= is just a likely as generating but for since you can generate but you can't generate Detailed balance =P DE is