
```
function [x] = bp(i,j)
%calculates arrival rates of clashing dependent on cluster size.
global Ve norm_r
if i == 0 || j == 0
    x = 0;
    return
end

norm_ma = 1E-15; % mass in [kg]
T = 300; % temperature [^o Kel]
kb = 1.38*10^(-23); % Boltzmann's constant [J/(K^-1)]

x = (1/Ve)*8*kb*T*(norm_r/norm_ma)*(i+j)^2/(i*j);
```