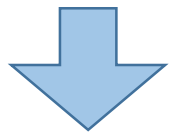
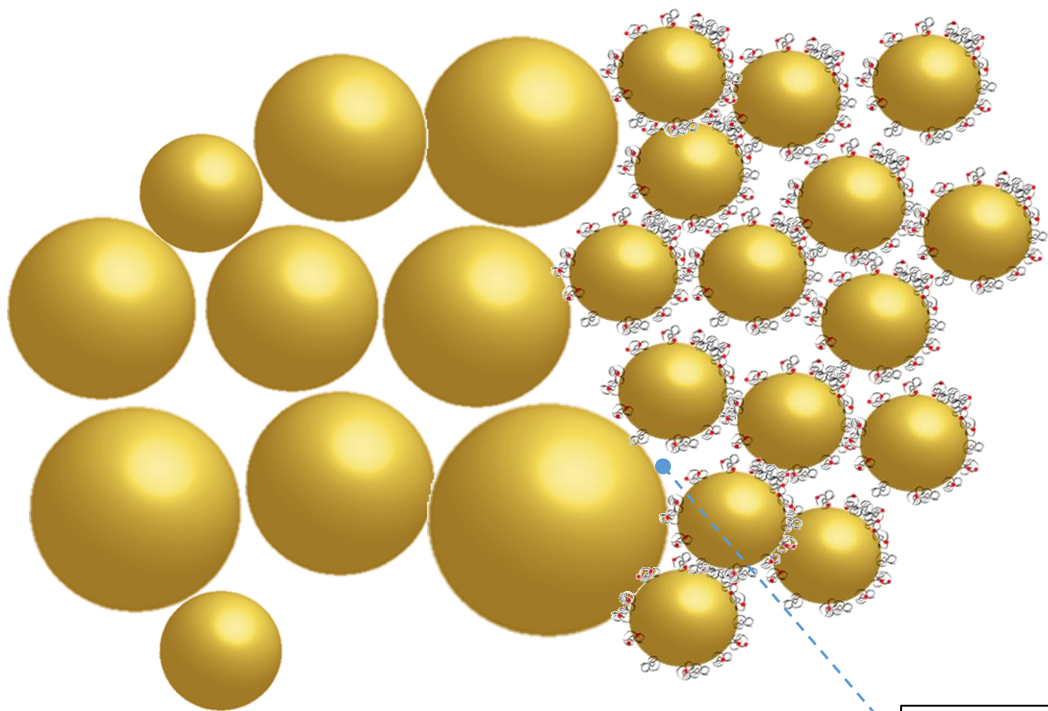


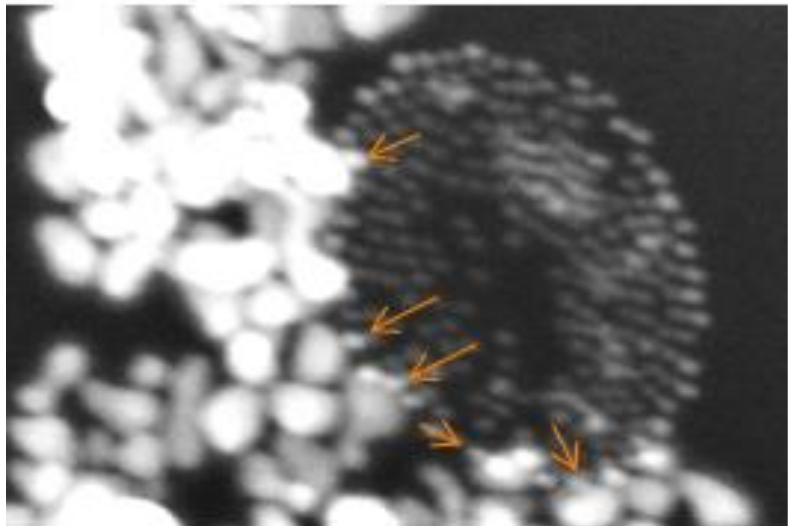
cluster of MNPs  
of sizes in  
between 70nm-120nm



**no SHG  
observed  
again !!!**

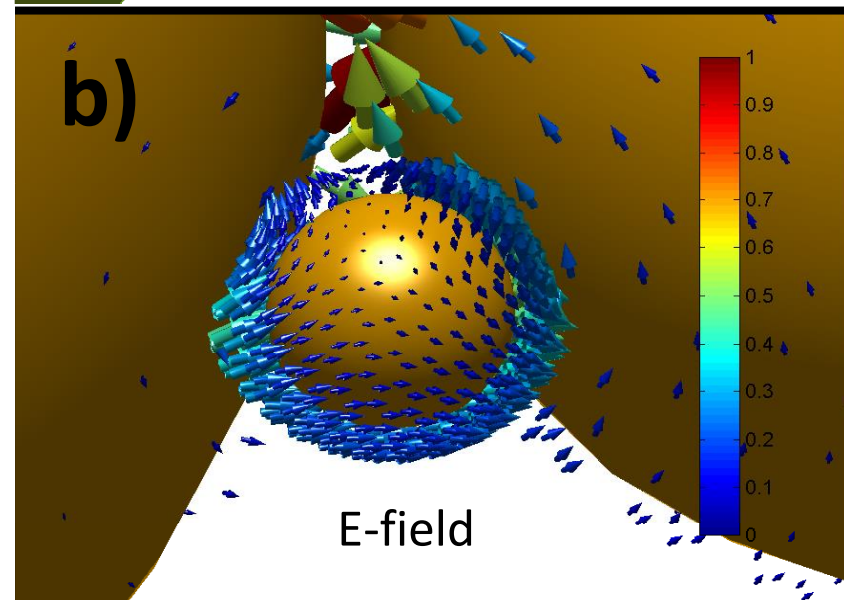
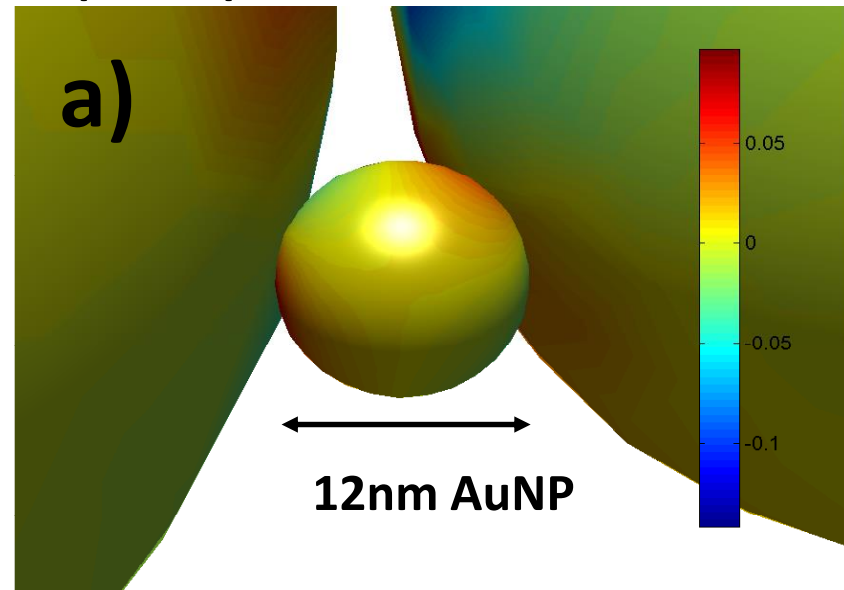


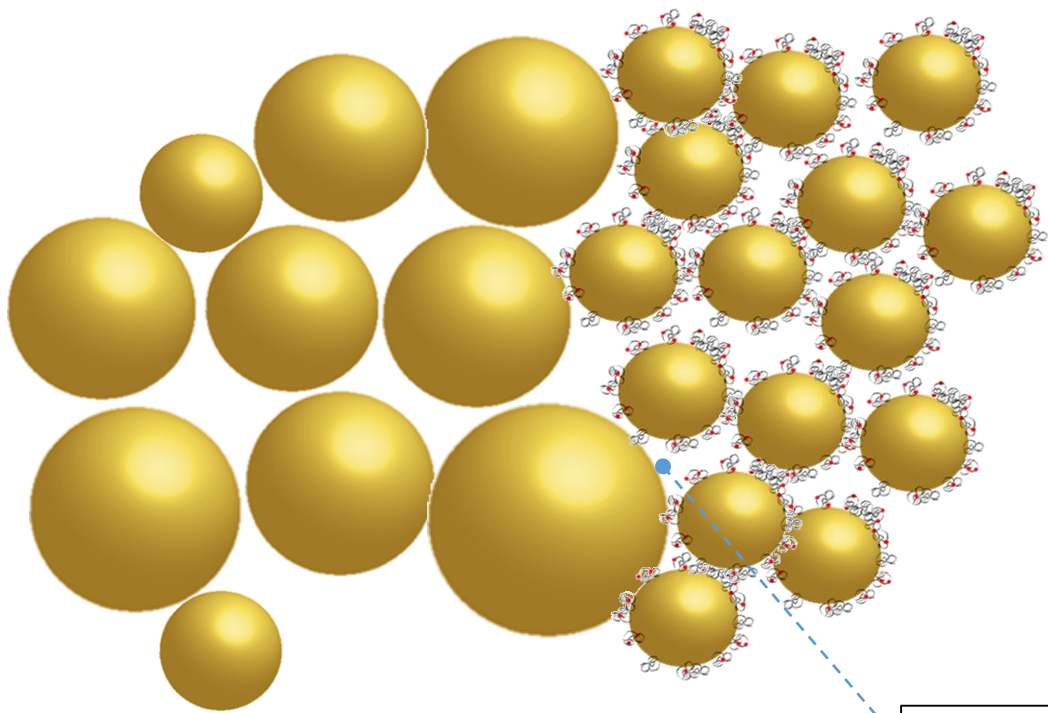
two clusters attached!



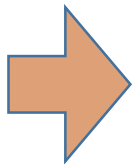
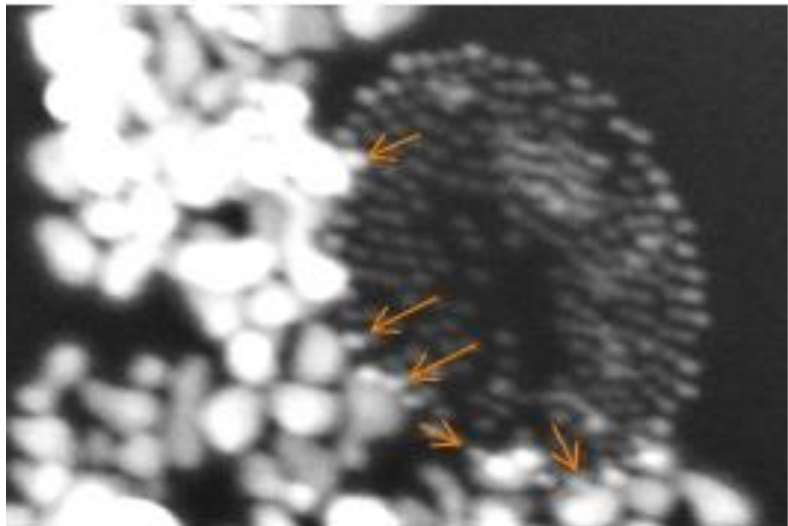
SHG is observed  
with CW laser

quadrupole mode on 12nm AuNP





two clusters attached!



**SHG is observed with CW laser**

quadrupole mode on 12nm AuNP



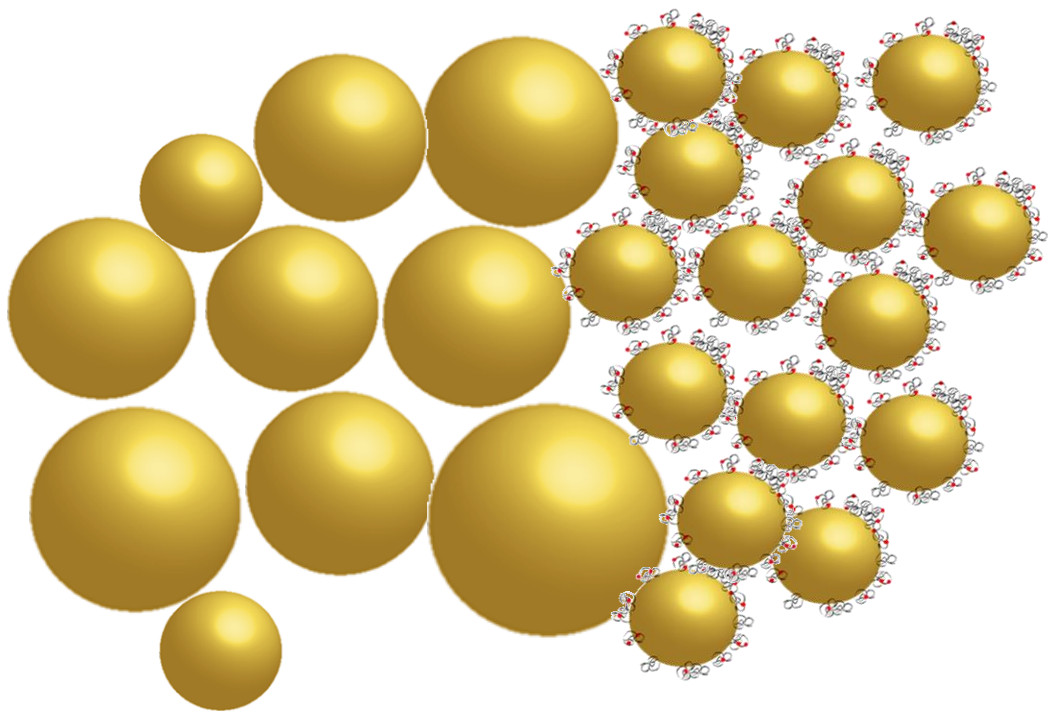
Fano resonance



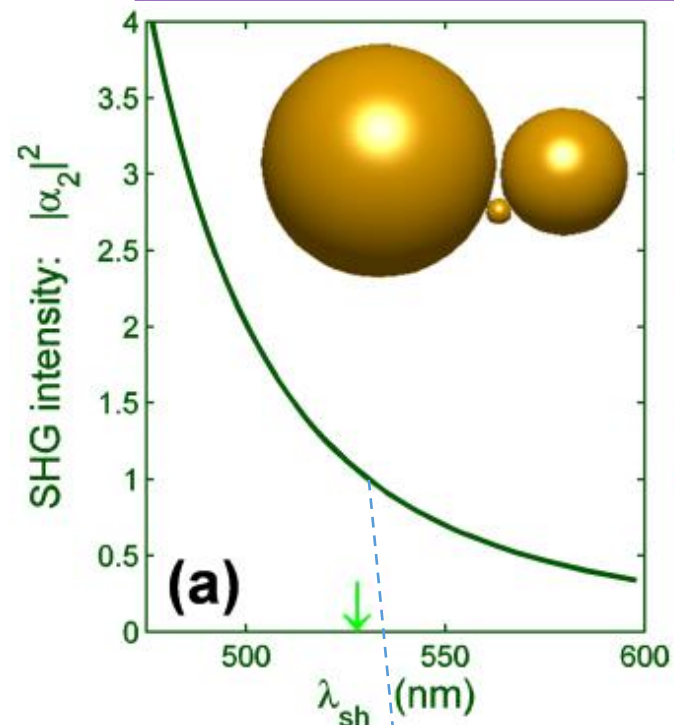
coupling of quadrupole mode to far-field via fluorescent molecules



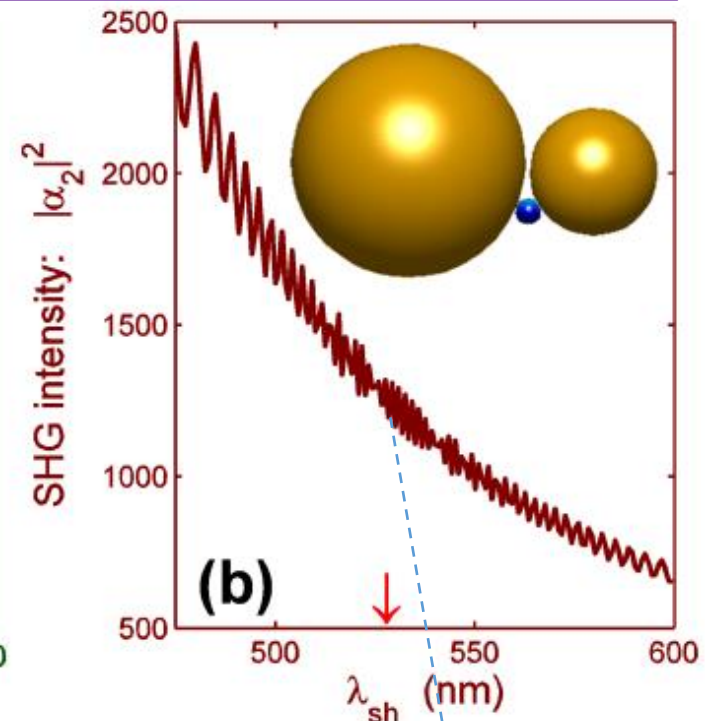
**SHG with CW laser**



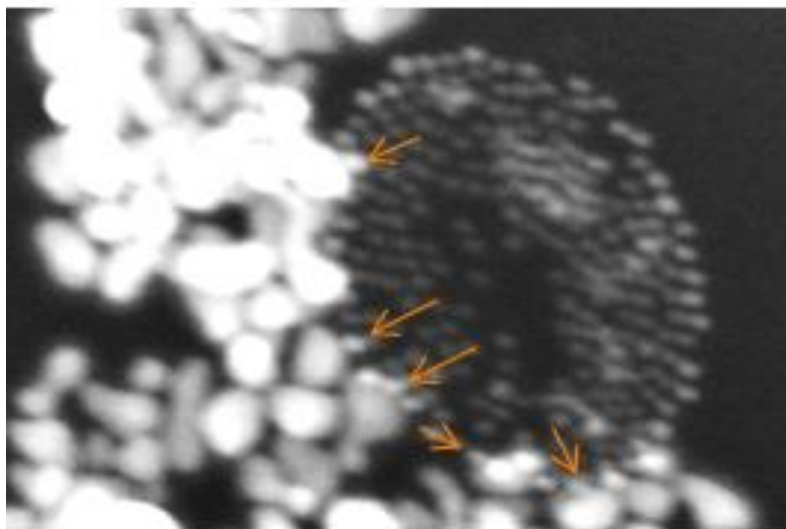
## effect of Fano resonance



3 noncentrosymmetric  
MNPs  
 $I_{SHG}=1$



3 noncentrosymmetric  
MNPs  
+  
a molecule  
 $I_{SHG}=1250$



SHG is observed  
with CW laser