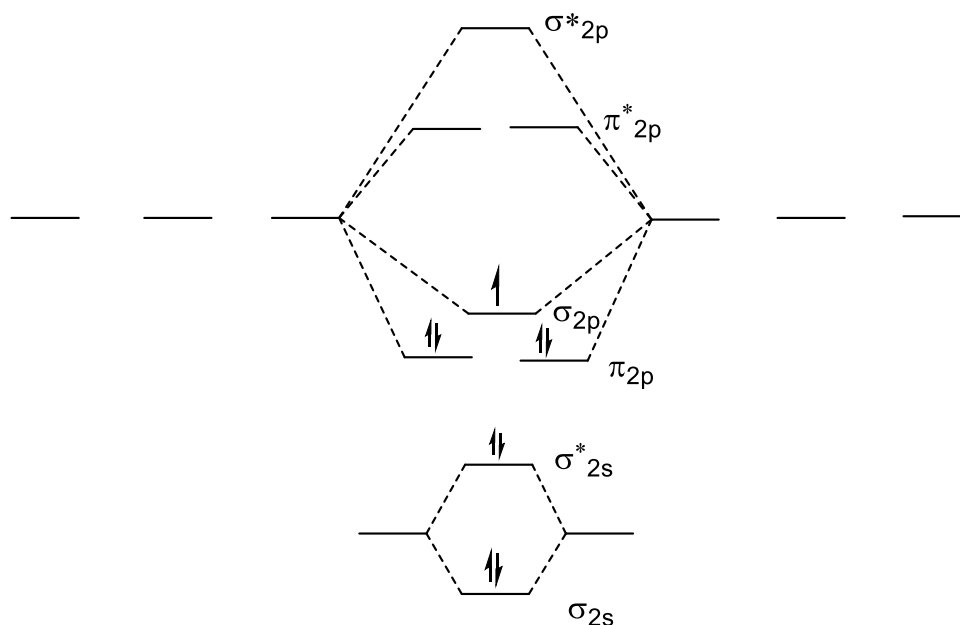


Answer on Question#66199 – Chemistry – General chemistry

**Question:** Write  $N_2^+$  and  $N_2^{2-}$  ions molecular orbital configuration and comment on paramagnetic property.

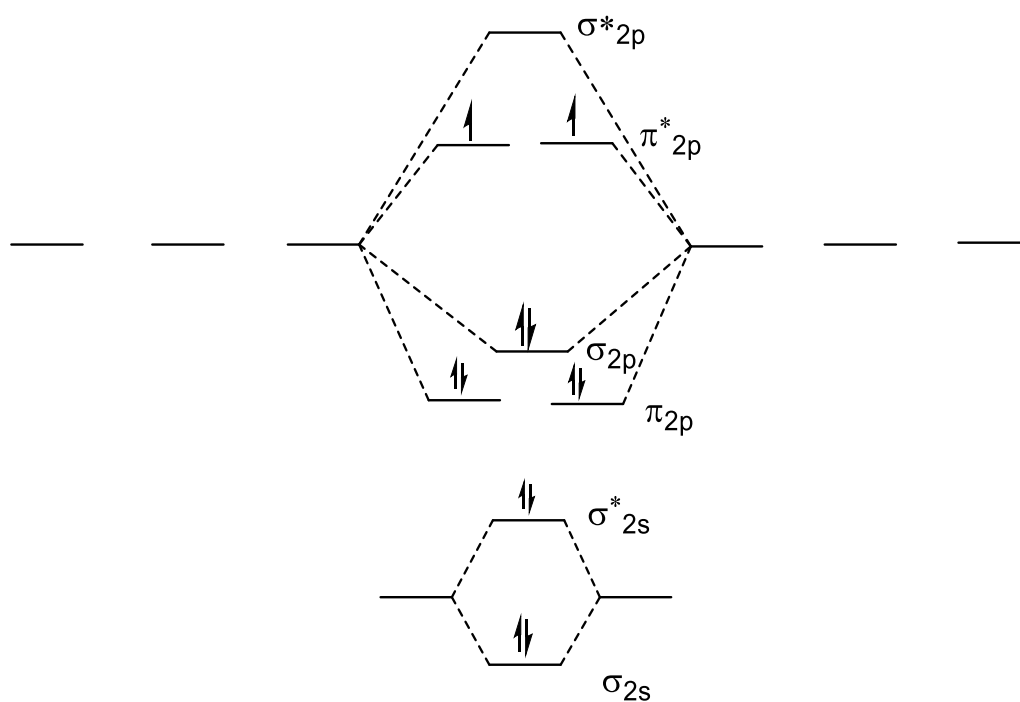
**Answer:**

- $N_2^+$



The ion has one unpaired electron on  $\sigma_{2p}$  orbital, so the ion is paramagnetic.

- $N_2^{2-}$



The ion has two unpaired electrons on  $\pi^*_{2p}$  orbital, so the ion is paramagnetic.