

**THE QUASI-MOLECULAR ABSORPTION BANDS IN UV AND EUV REGION
CAUSED BY THE NON-SYMMETRIC ION-ATOM PROCESSES IN THE HELIUM
RICH WHITE DWARF ATMOSPHERES**

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The processes of the ion HeH^+ photo-dissociation together with the process of the absorption charge-exchange and photo-association in the $\text{He}+\text{H}^+$ collisions can significantly influence on the opacity of the atmospheres of some helium rich white dwarfs in far UV and EUV regions. It is shown that the examined processes generate rather wide quasi-molecular absorption bands in the considered spectral regions even in the cases of the atmospheres of the white dwarfs with $\text{H}:\text{He} = 10^{-5}$. It is established that in the cases of the white dwarfs with $\text{H}:\text{He}$ larger or approximately equal to 10^{-4} , particularly when $\text{H}:\text{He}$ is approximately 10^{-3} , these processes have to be included *ab initio* in the corresponding models of their atmospheres since in far UV and EUV region they became dominant in respect to the known symmetric ion-atom absorption processes.