## Clustering with <sup>4</sup>He nucleus participation We renewed the analysis of emulsion irradiations by <sup>22</sup>Ne, <sup>24</sup>Mg, <sup>28</sup>Si, and <sup>32</sup>S nuclei at a 4.5A GeV/c momentum.

We are planning to search for and investigate fragmentation of these nuclei by observing the final states containing a few  $\alpha$ -particles.

Search for states considered as nuclear molecules is of special interest.

Our approach will enable us to make the choice between the definition of this resonance as a configuration of a few bound  $\alpha$ -particles or a resonance arising only in a nuclear scattering.