

Time detectors will form a fundamental component in the further development of detection devices, not only in high-energy physics. The MicroChannel Plate PhotoMultiplier (MCP-PMT) is a very fast (and very expensive) multi-purpose photomultiplier and time detector. It is currently the best available in terms of time resolution. In addition to the fact that its response is very fast, this response is also resistant to magnetic fields. The MCP-PMT is used in a number of current or upcoming Time-of-Flight (ToF) detectors. The development of MCP-PMTs is expensive and time-consuming. The process can be simplified by developing a computer model that can be used to simulate the behaviour of MCP-PMT. The model can greatly accelerate the development of a new type of MCP-PMT for high signal repetition rates (> 20 MHz) and save a number of laboratory experiments. An attempt to construct an MCP-PMT model is the goal of this work.