

Analysis machine and method for NEWSdm experiment

NEWSdm experiment is a directional dark matter search experiment with super fine grained emulsion called NIT. The experiment aim to detect the direction of dark matter signal by recording sub- μm scale tracks of recoiled nucleus by dark matter with NIT. However, to get track information, we need not only to record tracks but also to readout them. Therefore, tracks in NIT is need to readout by scanning system. NIT works as detector only when it combine with scanning systems. Now a days, we use multiple scanning machine and analysis method to reject background events and to get detail track information. In this presentation, I will talk about the recent development status of scanning systems and the analysis flow of NEWSdm.

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