Origin of Stars, Planets and Life in the Universe

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A Part of the people living on our crowded planet have the opportunity and leisure to deal with the question of how life has evolved on Earth. In what other places in the Universe was it possible that similar or markedly different life could have been developed? Surely only ill-informed fellow dream today of a direct contact with living beings on one of the many currently found so-called exoplanets around Sun-like stars outside our Solar System.

But we are interested to learn how the stars are formed, how they act on their environment through energy and mass supply and as drivers of planetary climate. By which physical processes are the different planets built in the accretion disks surrounding these stellar objects. And what conditions have to exist in the "habitable" areas of solar-like stellar systems to enable the making of life there?

In this presentation all the astrophysical processes, considered relevant for answering these questions, will be explained clearly and in detail by means of colorful pictures, animations and video sequences. The main focus of this talk involves the detection methods of planets, the question of the origin and development of the exoplanets compared to the evolution of our Solar System. The discussion of mainly gravitationally and through magnetic forces mediated structure formation processes are important in this context.

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