

# Simulating Reionization: Yesterday, Today, Tomorrow

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Room 184 Nieuwland Science Hall

I will review the field of numerical simulations of cosmic reionization: the process of ionizing of intergalactic medium by high redshift galaxies and quasars. I will describe the main physical processes that are important for modeling reionization, explain how these processes are incorporated in computer simulations, and will use simulations to gain insight into the actual reionization process. I will finish with an illustration of how the exponential progress in computer industry allows us to solve problems that we could not even dream about mere 10 years ago.