SECOND SIGHT ALONG THE WIRES.

BY THOS, MULVEY.

Spirit that lurks each form within beckons to spirit of its kin; Self-kindled every atom glows And hints the future which it owes.

miles away! Preposterous! To man's doctrine of the correlation of the subjugation of nature there is a limit." It is thus our self-assured man of scarcely be explained, that all kinds science spoke a year ago. "Hear or forms of phenomena are but the what is said a thousand miles away! manifestations of a universal energy; You are a madman." Thus our fathers that the forces above alluded to

spoke not fifty years ago.

ful probability referred to is due.

exists between the forces of the potential energy, the attraction of gravity, etc.,—this greatest mystery medium. The more intimate our of nature was vaguely anticipated by knowledge of these forces the more experimental research, and Helmholtz composition or structure, but in the

to demonstrate, about the middle of our own century, the actual existence of this correlation and to elevate what was but a mere speculative theory "See what takes place a thousand into a well recognized law. The physical forces assumes, it need are but motions of the ultimate Yet what were the "mad visions" particles of matter, or of a still of yesterday are almost the realities more rarefied form of matter designaof to-day. The self-assured scientist ted by physicists the luminiferous has been proven wrong; and seeing ether. The existence of this medium at indefinite but great distances is was long the dream of philosophers. known to be within the very probable. The undulatory theory of light prorealizations of the immediate future. pounded by Fresnel and Young about To the remarkable insight into the the beginning of this century made complex forces of nature possessed by the dream a reality, and the subsequent Dr. Oscar Hendricksen, of Lund, experiments of scientific men have so Sweden, and to his years of patient firmly established the theory that we industry, the revelation of the wonder- are now as assured of the existence of the ether as we are of the existence of A brief resume of the steps which the moon. In order to explain the have led to this fascinating discovery phenomena of light Fresnel created is not amiss. No great theory, no the ocean of the universe—an ocean of great invention, no great discovery ether, a fluid which exists between announced by any great investigator the ultimate particles of matter to an attentive world, but has floated and pervades all space. It is but the airily, mistily, through the minds of variation in the rate of vibration of his predecessors, or been foreshadowed the ultimate particles of this medium in the work of preceding generations, which constitutes the difference be-The "correlation of the physical tween light of various colors and forces:" the intimate relation which radiant heat. Electricity, magnetism, universe—light, heat, sound, mag-gravity are but different modes of netism, electricity, the attraction of motion or states of stress in this the great philosophers of the past markedly we see the unity of the century, but it remained for Dr. Joule, phenomena of nature—a unity which of Manchester, by his mastery of consists "not in similarity of material with his acute mathematical reasoning, subordination of all these to similar