Octavio Arizmendi\* (octavius@cimat.mx), Centro de Investigación en Matemáticas, Jalisco S/N, Col. Valenciana., 36240 Guanajuato, Gto., Mexico, and Takahiro Hasebe and Noriyoshi Sakuma. On the Law of Free Subordinators.

We study the freely infinitely divisible distributions that appear as the laws of free subordinators. This is the free analog of classically infinitely divisible distributions supported on  $[0, \infty)$ , called the free regular measures. We prove that the class of free regular measures is closed under the free multiplicative convolution, t-th boolean power for  $0 \le t \le 1$ , t-th free multiplicative power for  $t \ge 1$  and weak convergence. In addition, we show that a symmetric distribution is freely infinitely divisible if and only if its square can be represented as the free multiplicative convolution of a free Poisson and a free regular measure. This gives two explicit examples of distributions which are infinitely divisible with respect to both classical and free convolutions:  $\chi^2$  and F(1,1). Another consequence is that the free commutator operation preserves free infinite divisibility. (Received February 10, 2014)