Recommendation Letter

To whom it may concern

In August 1994 I wrote following letter supporting research of Gigla Janashia (see below):

G. Janashia is a very good Georgian mathematician. I know him many years. He started his work in Moscow in the scientific schools of such famous mathematicians as Israel Gelfand and Eugene Shilov in the Functional Analysis. In his early papers he made a group of very interesting investigations studying Hilbert transformation for the Wiener Ring. Some of his results of early 1960s in the theory of the so-called Quasianalytical Functions belonging to some special well-known classes, were independently obtained at the same time by such famous mathematicians as Ehrenpreis, Carleson and Mityaqin. It was very popular subject at that time. In 1960-ies and 70-ies he made several interesting works in the theory of differential and integral equations. There were certainly some very good results in these works. However this part of his activity is far from my scientific area, so my knowledge about it is restricted. I know better his activity of the last decade, when he started to work in the so-called Factorization Problem for the positively-defined symmetric matrix function on the line (circle) in the complex plane. A.Kolmogorov and N. Wiener pointed out that this problem is important for applications. An existence of factorization in this case was non-effectively established by N. Wiener many years ago. He asked about the existence of algorithm for solving it effectively. Gigla Janashia found an effective algorithm in many cases. It is a very good work. Several years ago he presented his first results in the seminars in Moscow, but last 3 years connection was practically broken. As far as I know he made a new important progress recently. It is worth to support his research.

S. P. Novikov, August 1, 1994

President of Moscow Mathematical Society

Let me add now following: Gigla Janashia died recently but his results in the Factorization Problem were successfully extended and completed by his colleagues—especially by **Lasha Ephremidze**. He visited recently our University of Maryland, College Park, and successfully presented his joint results with Janashia and their extension, in the Seminar of the Norbert Wiener Center organized by professor J.Benedetto. I think, this research

is very interesting and deserves to be supported by the international math community. S. Nevilos

Sergey Novikov, July 10, 2007

University of Maryland, Distinguished Professor