

$2B \vee \neg 2B^*$

Pierre C. Hohenberg[†], Richard N. Lyons[‡]
D. K. Tahvildar-Zadeh[§], F. K. Tahvildar-Zadeh,[¶]
A. S. Tahvildar-Zadeh^{||}

December 14, 2008

Abstract

We survey some ancient and recent results on the perception and pattern recognition by the human auditory system of artificially generated acoustical pressure waves, and explore the complexity of the problem of authentication of the source.

B vs. NB _____ J. S. Bach *et al.*

A. S. T-Z, *piano*

From *First Cello Suite* _____ J. S. Bach

A. S. T-Z, *cello*

Lobachevsky Song _____ T. Lehrer

P. C. H. *voice*, R. N. L. *piano*

I Bought Me a Cat _____ A. Copland

D. K. T-Z *voice*, R. N. L. *piano*

Humoresque _____ A. Dvořák

D. K. T-Z *cello*, F. K. T-Z *piano*

Variations on *Row Your Boat* _____ TBA

D. K. T-Z *piano*

Movement in C _____ TBA

F. K. T-Z *piano*

Romance in F _____ L. V. Beethoven

F. K. T-Z *violin*, R. N. L. *piano*

*Supported by Springer Verlag

[†]Senior Vice Provost for Research, New York University

[‡]Chairman, Department of Mathematics, Rutgers University

[§]4th Grader, Princeton Charter School

[¶]Sophomore, Princeton High

^{||}Associate Professor, Department of Mathematics, Rutgers University