

## **Netsivi Ben-Amots: Some publications on dynamics**

### RELATIVISTIC DYNAMICS and ASTROPHYSICS

[1] Ben-Amots, N.,  
Basic aspect of relativistic rotation: Franklin rotation of a sphere,  
Found. Phys., v. 33, pp. 1369-1372 (2003)

[Abstract](#)

[2] Ben-Amots, N.,  
Detection of rotation by a local elevator-like gedanken experiment,  
Found. Phys., v. 35, pp. 1533-1542 (2005)

[Abstract](#)

[3] Ben-Amots, N.,  
Relativistic exponential gravitation and exponential potential  
of electric charge,  
Found. Phys., v 37, No. 4-5, pp. 773-787 (2007)

[Abstract](#)

[9] Ben-Amots, N.,  
A new line element derived from the variable rest mass in  
gravitational field,  
arXiv:0808.2609v1 (8.2008)

[Abstract](#)

[Fulltext in arXiv](#)

[Fulltext with updated reference 56](#)

[10] Ben-Amots, N.,  
Some features and implications of exponential gravitation,  
J. Phys.: Conf. Ser., v. 330, 012017 (2011)

[Abstract](#)

[Fulltext](#)

[11] Ben-Amots, N.,  
Relativistic Radial Expansion: Do we need Dark Energy?,  
J. Phys.: Conf. Ser., v. 330, 012018 (2011)

[Abstract](#)

[Fulltext](#)

[12] Ben-Amots, N.,  
Energy accumulation in relativistic sub-Bohr orbitals,  
Franklin's relativistic rotation of quarks and gravitational field

bounceback as processes relevant to explosion of supernovae,  
J. Phys.: Conf. Ser., v. 615, 012012 (2015)

[Abstract](#)

[Fulltext](#)

## NEWTONIAN DYNAMICS and ROTATION

[4] Ben-Amots, N.,

Approximate analytical solution for high-speed spin axisymmetric rotor, using coordinate system linked to precession and nutation, Acta Mechanica, v. 25, pp. 111-119 (1976)

[Abstract](#)

[5] Bousso, D. (1933-1971), Ben-Amots, N.,

A simple means for attaining high centrifugal accelerations, J. Phys. E: Scientific Instruments, v. 5, pp. 291-295 (1972)

[Abstract](#)

[13] Ben-Amots, N.,

Dynamics and thermodynamics of tornado: Rotation effects Atmos. Res., v. 178-179, pp. 320-328 (1 September 2016)  
doi:10.1016/j.atmosres.2016.03.025

[Abstract and fulltext in journal](#) available in internet May 2016  
[responses](#)

[6] Ben-Amots, N.,

The motion of a high-speed rotor under the influence of a moment perpendicular to the axes of precession and nutation D.Sc. thesis, Technion, Haifa, Israel (1976), in Hebrew

[Abstract \(English\)](#)

There is a partial review in English in Cohen and Porat\* (1984)

[7] Ben-Amots, N.,

The dynamical behavior of a rotor on a belt suspension drive M.Sc. thesis, Technion, Haifa, Israel (1969), in Hebrew

[Synopsis \(English\)](#)

[19] Bousso, D. (1933-1971), Ben-Amots, N.,

A new method for obtaining large centrifugal accelerations. Proceedings of the 3rd Israel Conference on Mechanical Engineering, and the 17th Israel Annual Conference on Theoretical and Applied Mechanics, Technion, Haifa, Israel (June 1969), in Hebrew

[Abstract \(English\)](#)

## **Some non-dynamic publications and notes**

### LIFE and BRAIN MYSTERIES

[8] Ben-Amots, N., Anbar, M. (1927-2014),  
Sonochemistry on premordial Earth – its potential role in prebiotic  
molecular evolution,  
Ultrasonic Sonochemistry, v. 14, No. 5, pp. 672-675 (2007)

[Abstract \(Origin of life\)](#)

[14] Ben-Amots, N.,  
On tinnitus - the origin of the unexplained annoying whistle:  
TITLE: Is tinnitus a hearing overamplification in the brain?  
netsivi.org (2015)

[Abstract](#)

[Fulltext](#)

[15] Ben-Amots, N.,  
TITLE: Left side right  
netsivi.org (2007)

[Fulltext \(Brain\)](#)

[16] Ben-Amots, N.,  
TITLE: Waking up paralyzed  
netsivi.org (2006)

[Fulltext \(Brain: Sleep\)](#)

### **notes**

[17] Ben-Amots, N.,  
TITLE: An animal also has soul - on whales  
netsivi.org (2009, 2014)

[Fulltext \(Whales\)](#)

[18] Ben-Amots, N.,  
TITLE: On King Solomon's Ring - about one word in animals'  
language  
netsivi.org (2009, 2014)

[Fulltext \(Animals' language\)](#)

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Tiny virtual editor

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[link to old publication list](#)

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\* – Cohen, R., Porat, I. (1934-2012), Influence of load torque on stability of rotor driven by flexible shaft, J. Sound Vib., v. 95, pp. 151-160 (1984). See pp. 151, 159.  
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