**<= oval window and base scala vestibuli (perilymph)**

**apex, => helicotrema**

**scala media (endolymph)**

**r**

**er)**

**scala tympani (perilymph)**

**rd**

**Resonance Curve**

**<= round window and base**

**z**

**e**

**r**

****

**x**

**y**

Fig. 4. Auditory signals and discrete elements in human cochlea along the spiral angles in a cylindrical coordinates system. The perilymph and endolymph are electrolytes or plasma (physics) of K+, Na+, Cl-, Ca++, Mg++, OH- and H3O+. The explanations of components are the same as that in Fig. 3. See the text. The draw is not to scale.