



## **Mineral Prospecting by Proton Resonance**

## Problem

#### How to identify certain elements underground?



**CR3STECH** 





### Time and Cost?

## Implication

To Identify areas thought to contain hydrocarbons are initially subjected.

When a prospect has been identified and evaluated and passes the oil company's selection criteria.

An exploration well is drilled in an attempt to conclusively determine the presence or absence of oil or gas.





## Implication



### How identify a prospect?



## Question



It is possible a sensor react to the existence of an element, regardless of the medium that separates them?





#### Principles Acceleration Fields

A little reflection will show that the law of the equality of the inertial and gravitational mass is equivalent to the assertion that the acceleration imparted to a body by a gravitational field is independent of the nature of the body. - Albert Einstein,





Principles

## Frequency

Atoms and Molecules fluctuate and influence each other by field acceleration











MASS 2

MASS 1



#### Principles Resonance Frequency







MASS 2

## Simon Shnoll



- Studied the fine structure of the dispersion of results on biochemical processes analysing histograms. Discovered similarities in histograms shapes;
- The effect of space-time fluctuations, which, in their turn, are caused by the movement of the measured object in an anisotropic gravitational field;
- Measurements of processes of different nature;
- Any kind of measurement presents the same variation histograms;
- Energy independent (occurs in high energy as low energy processes);
- Dependent on geographic position and localtime;
- Use of collimators shown the influence of cosmic bodies in the histograms shape.

Principles Implications

The sensors are affected as a result of providing a spectrum which is the information of the absorbed energy as a function of wavelength (or frequency) in the form of a graph.





**Principles** 

## **Proton Resonance**

- More than 95% of all matter are composed of Nucleon (protons, neutrons).
  Proton is the most stable known particle in universe.
- Proton have a basic resonance frequency, and all processes of nature tend to be in resonance with this frequency.





#### Principles Continued Fractions



CZESTECH



Dr. Müeller 1981

describes the behavior of n-resonant-body and exposes the fractal nature of the system.



A. Ya. Khinchin 1949

#### Principles Fractal Dimension

Explain the fractal nature and dimension of resonance process and, as a consequence of all processes in nature.







#### Principles Element Spectra

Chemical elements and it's isotopes nucleous are resonant systems of protons and neutrons, so they have a resonance spectra according to it's nuclear composition





- Data Collection
- Preprocessing Calculation of histograms
- Location of spectral lines in continued fractions computed in P3
- Calculation of the relative concentration of the element.
- Statistical distribution of isotope concentration per layer
- Export SEG-Y









## **Implications of Principles**

Knowing the resonance frequencies of the desired elements, looking up their standards in response

sensors.





### **Processo** – Data Colletion



# Signals are captured and stored







## Process – Data Colletion Signals are capture by Helicopter





## Preprocessing - Calculation of histograms

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Processo



### Calculation of the Relative Concentration





Processo



### Calculation of Stochastic Resonance













## Result of Proton Ressonance Traditional Tecnology x New Tecnology



CRESTECH



## Result Of Proton Ressonance

Traditional Tecnology X New Tecnology





## Conclusion

Opertation time reduction, higher profit, lower risk, and sustainability in 360 degrees







#### **Thank You for attention**

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CRBS TECH : Our mission is to develop sustainable technologies to our planet