

# Non – Singular Criterion and Analytics of $\Delta \pm$ ATLAS: an Advanced Bayesian Model

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#### Abstract:

Merger of two different 'class' yield a higher degree probability of 'impacts' – To be produced in further research; than otherwise – 'class' of unimodular structures i.e., 'class' with lesser degrees being transformed to the same order criterions in a 'weighted' way. This being established in converge - $\Delta^-$ : originating from the source concerned: Then emergent throughout in the separate case; being diverge -  $\Delta^+$  with opposite orientation. Norming over variables – Classifiers are analyzed for each probability class

#### Classifiers:

Class  $\cap^1$  and class  $\overline{\cap^1}$  being considered as the base case being attributed notionally although in a 'fuzzy' way being established in orders less than 'concerned hypothesis' for 'class'  $\cap^1$  and  $\cap^2 \exists \Delta^- \approx \Delta^+ \forall concerned ATLAS$ : 'Structures with algebraic variables' or otherwise to be specified later.

#### Analytics:

Bayesian in a modified approach as prepared for this study.

#### Parameters:

	Class		Probaility	ATLAS	
$\Sigma \cap^1$		$\Sigma \cap^1$	Ś	$\Delta^+$	$Unimodular \longrightarrow \forall \qquad +1 \\ where + 1 \Longrightarrow (+ve \ factors) \exists -1 \ \Sigma \cap^1 \Sigma \overline{\cap^1} \stackrel{less \ weighted \ than}{\longleftarrow} \Sigma \cap^1 \Sigma \cap^2$
$\Sigma \overline{\cap^1}$		∑∩²		$\Delta^{-}$	

#### Results:

To be established over repeated revisions replacing variables as constants for all the Parameters concerned.

#### Approach:

Bayesian Inference;  $deg_h$  Parameters;  $\zeta$  – *Distribution: Strong*;  $\zeta$  – *Distribution: Weak*; Bernoulli Samples

# Methods:

### I Parameterization

Regression coefficient  $-\mu \cong \sum \cap^1 \sum \cap^2$  | Symbol  $\sum$  used here for conjugate class | each class being a group of sub

Probability of the distributions –  $\rho(\mu)$  for distributions concerned  $\mu$ 

Sampling distribution  $-\rho(\mathcal{D}|\mu)$  where  $\mathcal{D} = datas that are right now unknown$ 

II Theorem

$$\rho(\mu|\mathcal{D}) = \frac{\rho(\mathcal{D}|\mu)\rho(\mu)}{\int \rho(\mathcal{D}|\mu)\rho(\mu)} = \frac{\rho(\mathcal{D}|\mu)\rho(\mu)}{\rho(\mathcal{D})}$$

Where,

 $\begin{array}{ll} \rho(\mu) \text{ is prior distribution} \\ \rho(\mu|\mathcal{D}) \text{ is posterior distribution} \end{array} \implies \rho(\mu|\mathcal{D}) \propto \rho(\mathcal{D}|\mu)\rho(\mu) \\ \rho(\mathcal{D}|\mu) \text{ is the sample distribution} \end{array}$ 

# III Sample Datasets

ATLAS	Samples	Observed Factors $\cap^1 \overline{\cap^1}$	Hypothesized Factors $\cap^1 \cap^2$	
$\Delta^+$	n	$\partial_n$	$ar{\partial}_n$	
		~		$\exists \ \bar{\partial}_n \gtrsim \partial_n$
$\Delta^{-}$	n	$\partial_n$	$ar{\partial}_n$	

# IV Inference

 $deg_h$  Parameters with almost no available information are  $x, y \exists x = 1, y = 1 \subseteq deg_h$ 

IV.I Weak Cases ( $\Delta^-$ )

$$\rho(\mu) \equiv \frac{\zeta(x+y)}{\zeta(x)\zeta(y)} \rho^{x-y} (1-\rho)^{x-y} = \frac{2!}{0! \, 0!} \rho^0 (1-\rho)^0 \implies \rho(\mu) \propto \rho^0 (1-\rho)^0$$

*Factors*:  $\alpha$  for  $\partial_n \mid \beta$  for  $\overline{\partial}$ 

 $Results: \sum_{i=1}^{\alpha+\beta} \times^{i} \qquad \exists \times^{i} = \begin{cases} i = 1, & if \ satisfies \ observed \ factors \ considered \\ i = 0, & if \ satisfies \ hypothesized \ factors \ considered \end{cases}$ 

Thus: 
$$\rho(\mathcal{D}|\mu) = \prod_{i=1}^{\alpha+\beta} \rho^{\times^i} (1-\rho)^{1-\times^i} \implies \rho(\mu|\mathcal{D}) \propto \rho^\beta (1-\rho)^\alpha$$

IV.I Strong Cases ( $\Delta^+$ )

$$\rho(\mu) \equiv \frac{\zeta(\partial_n + \bar{\partial}_n)}{\zeta(\partial_n)\zeta(\bar{\partial}_n)} \rho^{\partial_n - 1} (1 - \rho)^{\bar{\partial}_n - 1}$$

 $Thus: \rho(\mu|\mathcal{D}) \propto \rho^{\beta} (1-\rho)^{\alpha} * \rho^{\partial_n - 1} (1-\rho)^{\overline{\partial}_n - 1} \implies \rho(\mu|\mathcal{D}) \propto \rho^{(\partial_n - 1 + \beta)} (1-\rho)^{(\overline{\partial}_n - 1 + \alpha)} (1-\rho)^{(\overline{\partial}_n - 1 +$ 

V Establishing Hypothesis

$$\Delta^{+}: expected \ value(\rho) = \frac{\overline{\partial}_{n} - 1}{\partial_{n} - 1 + \overline{\partial}_{n} - 1}$$

 $\Delta^{-}: expected \ value(\rho) = \frac{\alpha}{\beta \ + \ \alpha}$ 

With the Weak Priory (vague information)

 $\Delta^{-}: expected \ value(\rho) = \frac{\alpha}{\beta + \alpha} \ Slightly \ greater \ than \ \Delta^{+}: \frac{\overline{\partial}_{n} - 1}{\partial_{n} - 1 + \overline{\partial}_{n} - 1}$ 

#### **VI** Remarks

Considering the hypothesis the weight to be established to the weight to be considered are taken as a 5.1 – 4.9 % with 0.2 more inclined in the 'establishing class or sides' where  $+1 \Rightarrow (+ve \ factors) \exists -1 \sum_{n=1}^{\infty} \sum_{i=1}^{less \ weighted \ than} \sum_{i=1}^{\infty} \sum_{i=1}^{n-1} \sum_{$ 

#### **VII** References

Lectures of Gabriel Katz are considered for this studies and this particular hypothesis has been set up by altering and modifying certain criterions.

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