[illegible]

[illegible] [1] and [illegible] [illegible] [2]

[1] [illegible] University [illegible]
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[2] [illegible] University [illegible] [illegible]
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Abstract. [illegible] [illegible] [illegible]

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[

$$\mathrm{Var}[W^{\prime}, \mathbb{M}_{\mathcal{A}}] = \mathrm{Var}_{\mathcal{A}\mathcal{B}} \, \mathrm{cov}[\mathbb{M}_{\mathcal{A}}, \mathrm{cov}[W, W^{\prime} \mid \mathbb{M}_{\mathcal{A}}]]$$

[illegible] $\mathrm{cov}[W, \mathbb{M}_{\mathcal{A}}] \neq 0$ [illegible] $\mathrm{cov}[W, W^{\prime} \mid \mathbb{M}_{\mathcal{A}}]$, the [illegible] of [illegible] $\mathrm{Var}[W^{\prime}, \mathbb{M}_{\mathcal{A}}]$ [illegible] $\mathrm{cov}[W, \mathbb{M}_{\mathcal{A}}]$ [illegible] $\mathrm{Var}[W^{\prime}, \mathbb{M}_{\mathcal{A}}]$.

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[illegible] a [illegible] [illegible] [illegible]

μ. [illegible] 1 for functional reason we , normally in [illegible] our [illegible] [illegible] . [illegible] a value in the [illegible] of W and the [illegible] [illegible] $[\ ,\ ,\ ]$ in either a [illegible] [illegible], denoted by M_1.

W [illegible] also a, in analogy a [illegible] M_1 generated by W then a [illegible] a, [illegible] in determining the submodule that encodes the [illegible] w. Recall that the [illegible] of W [illegible] a the [illegible]-[illegible] of [illegible] [illegible] in W, i.e., the [illegible] that lie on the [illegible] μ. [illegible] , if W [illegible] also a in W, then W will identify a [illegible] a conjugate of the [illegible] [illegible] . Using it we [illegible] between W and W will introduce a certain [illegible] of error. [illegible] that there [illegible] [illegible] [illegible], [illegible] we, [illegible] [illegible] a [illegible] [illegible] of the [illegible] of a [illegible]-[illegible] [illegible] of [illegible]. [illegible] a [illegible] w' [illegible] μ in [illegible] [illegible] we [illegible] of a [illegible] of the [illegible] of [illegible] [illegible] [illegible] in M^*, i.e., the [illegible] we [illegible] of the [illegible] [illegible] in W [illegible]. [illegible] a [illegible] $[\ ,\ ]$ $\frac{[\ ,\ ]}{}$ W [illegible] [illegible] [illegible] of W [illegible] the [illegible]-[illegible] $[\ ,\ ]$. In [illegible], if there [illegible] a [illegible] $[\ ,\ ]$ in W for [illegible] μ, then $[\ ,\ ] - [\ ,\ ]$ [illegible] a a [illegible] element [illegible] a [illegible] [illegible] in the [illegible] $[\ ,\ ]$. [illegible] [illegible] of [illegible] [illegible] [illegible] .

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[illegible] $[\ ,\ ]$ $\frac{[\ ,\ ]}{}$ W [illegible]

[illegible] w' [illegible] [illegible] [illegible] [illegible] w' [illegible]

If the [illegible] [illegible] [illegible] [illegible] [illegible], then the [illegible] [illegible] [illegible] [illegible] w' [illegible] [illegible] [illegible] w if the [illegible] [illegible] W [illegible] [illegible] the [illegible] [illegible] of W. If the [illegible] [illegible] [illegible] [illegible] , then the [illegible] [illegible] [illegible] '[illegible]

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7 [illegible]

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[illegible]. [illegible] also, one [illegible] a — [illegible] $\subseteq \mathbb{N}^{\mathbb{N}}$ and k — [illegible]. [illegible] [illegible] one [illegible] interpretation to assign a [illegible]polynomial of the run in [illegible] k. [illegible] Nonrecursively enumerable [illegible] corresponding with [illegible] k a recursive [illegible], and the recursive [illegible] k in the [illegible] a Gödel-Turing [illegible] and by a finite set of at least k [illegible]. [illegible] one assignment in [illegible] an [illegible] "[illegible]polynomial" of the run in [illegible] k a recursive [illegible] and of the [illegible]exponentially $\mathbb{N}^{\mathbb{N}}$ [illegible] in [illegible]. In particular, with probability at least k k — $^{-\mathbb{N}}$, there will be "[illegible]" [illegible]polynomial [illegible] [illegible] [illegible]. [illegible], we obtain a [illegible] [illegible] characterization [illegible] a [illegible]-[illegible] [illegible] in [illegible].

[illegible] [illegible] [illegible], we [illegible] a [illegible] [illegible] [illegible]

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$$[illegible] = [illegible] \frac{[illegible]}{[illegible]}$$

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