



Title	Omoituita mama I
Author(s)	福原, 満洲雄
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Hukuhara-Masuo (北大)

1

Kami no ue no Danwakwai mo 2-gō ga dete daibu Yōsu ga wakatte kita. Boku mo nani ka kakitai ga Byōin no Beddo ni sibaritukerarete itan'dyā matomatta mono mo kakenai. Atama no Hataraki mo nibutta yōda. Tada Ki ga tuita koto wo sukosi nobesasete morau koto ni sita.

Happyōsareta mono dore mo kekkō. Daga mō sukosi kudaketa kaki-buri no mono ga attemo yoin'dyā nai darō ka? Kudakeru to iu koto wo yosetsu, wakariyasuku suru, sore ga Senmonka no Ude dyā nai ka? Tayasutitika dukenai yō na ikameshi Isyōwo tukete Sirōto wo Soba e yosetukenai de Gakumon no Igon ga tamotareru to kangaeru kata wa osoraku arimasumai. "Elementary" to iu koto wo kirattani keibetusitari suru koto wa yokunai. Senmontekina Kotogara wo Sirōto nimo wakaru yōni kudaite kaku koto wa nozomasi koto da. Syōmei no Genmitu to iu koto mo taisetu ni tiginai. Sikasi genmituna Syōmei ga erareta kara sorede wakatta to iu koto ni naryā sinai. Wakariyasuku setumeisuru tame niwa keisikitekina Genmitusa wa Gisei ni sitemo yoi darō. Kangae no Sudimiti datte Genmitusa ni otorazu taisetu da. Kotonī Kami no Ue datte Danwakwai nan'da kara.

2

Zyōbibunhōteisiki-ron ni oite Kai no Sonzai-teiri ga motu Dyūyōsa ni Igi no aru Kata wa nai darōto omou. Danoni boku wa sore wo sarani tuyoku sakebitai. Senmonka wa iu madomonai, Senmonka de nakuttemo Bibunhōteisiki wo ziyūni gyōsiyō to suru Zisshaika mo Kai no Sonzai-teiriga motu Mouti wo hakkiri siranakereba ikenain'dyā nai darō ka? Atarerareba Hōteisiki wo manzoku

Sore no Syûrensei wa yoku "séries majorantes" ni yotte tasikamerareru. Sore ga syûrensuru koto ga wakareba yoi ga, syûren, sinai Baai datte ikuramo aru. Sonna toki donna Toriatukai wo site ita darô ka? Kai wo Teisekibun no Katati de arawasitari itomo takumina Hôhō wo tukatte iru. Sikasi itumo sonna takumina Gikō wo kangaedasu Atama wa boku niwa nai kara, motto itudemo tukaeru Hôhō ga hosii. Sô iu mono ga mitukareba, Bibunhôteisiki ga mae yori tayasuku atukaeru yôni narun'dya nai darô ka? Sokode boku ga tukau Zyôtôsyudan wo setumeisiiyô!

$$y \sim a_0 + a_1x + a_2x^2 + \dots + a_nx^n + \dots$$

ga ataorareta Hôteisiki wo keisikitekini manzokusuru to siyô. Kore ga Kai no Kinzitenkai ni naru koto wo syômeisuru niwa kattena Seisû ni taisite

$$|y - (a_0 + a_1x + \dots + a_nx^n)| \leq Kx^{n+1}$$

(K wa Zyôsu)

wo manzokusuru Kai ga aru ka dō ka wo Kai no Sonzai-teiri ni yotte siraberu no de aru. Nanno Hentetu mo nai Kangaekata de aru. Sore dake ippanmuki dyâ nai darôka? Tada kô iu Baai ni riyôsareru no da kara, Kai no Sonzaiteiri wo dekiru dake seimitu ni suru Hituyô ga aru. Cauchy no Sonzaiteiri ni kôdeisite itan'dyâ, Bibunhôteisiki no Kai no Seisitu wo siraberu no ni Kai no Sonzai-teiri nado Yaku ni tatanai to iwaretatte Sikata ga arumai. Kono Mondai wa idure mata Hude wo aratamete nobete mitai to omou.

Mammana to ka iu Hito no Ronbun wo mita Wake de nai kara wakaranai ga, Nakano Udi ga iu tōri 冗長複雑 dattara Nakano udi naradeno haradatasii ni tigainai.

Nakano Udi no Kōgo wo sono mama tukatte'

$$(1) \quad y^{(n)} + p_1(x) y^{(n-1)} + \dots + p_n(x) y = 0$$

no Keisū $p(x)$ ga Kukan (a, b) de renzoku da to si, sono n -kono dokurituna Kai wo $u_1(x), \dots, u_n(x)$ to sureba (1) no Kai wa

$$(2) \quad y = (Z_1 + iZ'_1) u_1(x) + \dots + (Z_n + iZ'_n) u_n(x)$$

no Katati ni kakeru. x wo koteisite okeba

$$(Z_1 + iZ'_1) u_1(x) + \dots + (Z_n + iZ'_n) u_n(x)$$

wa $2n$ -zigenno Kūkan ni okeru $(2n-2)$ -zigenno Heimen de aru.

x wo a kara b -made henkwasaseru koto ni yotte, sonoyōna Heimen ga ∞ -kiserareru. Kono ∞ -kono $(2n-2)$ -zigenno Heimen ni hukumarenai $2n$ -zigenno Kūkan no Ten wo (Z, Z') to sureba (2) ga Kukan (a, b) de 0 ni naranai (1) no Kai ni naru. Kore dewa genmituna Syōmei ni natte inai ga, kore dake de zyūbunni Yōsu wa wakaru to omou. x wo Hukuso-ryōiki no Hensūto sitari, Keisū ga zitu de aru toki zituno Kai dake kangaetari sitan'dewa, naze Teiri ga seiritusinaku naru ka nado mo. Yōsuruni Zigen no Kwankei ni suginai. Genmituna Syōmei to site wa osoraku Nakano Udi no mono ga kantan de arō.

$u_1(x), \dots, u_n(x)$ ni kwansite taisyōna Katati no Syōmei mo eyō to sureba erareyōga, yori kantanni naru ka dōka wa siranai. Boku wa Nakano Udi no kongono Go-kenkyū ni Kitai wo motitai.

正誤 OMOTUITA MAMA (4号, Hukuhara-Masuo)

6頁 7行ト8行ト、間： wa Teido wo sageru to in koto dyā nai, Mukasii koto, wakarinikuni koto ヲ補フ。

8行. Wo , 次 " yasasiku 7" ス,

7頁 13行. Secsū , 次 = n 4 腹ケテ居マス,