PROPOSAL SUMMARY FORM TO ACCOMPANY SUBMISSIONS FOR ADDITIONS TO THE REPERTOIRE OF ISORE DOGAGE Please fill all the sections A, B and C below. Proposal is the section A, B and C below. Please read Principles and Procedure juicelines and details being: filling this form. Please insure you are using the latest Form from him/www.dwud.dw.UTC:ISC2WVG2/docs/consummaryform.html. See also http://www.dkuu.dw.UTC:ISC2W/G2/docs/condmaps.html. for latest Roadmaps. Administrative 1. Title: Proposal for the Addition of Math Characters 2. Requester's name: Asmus Freyrag, Barbara Beeton, Murray Sargenti 3. Requester type (Member body/Lisson/Individual contribution): Low/dval 4. Submission date: 21/106 5. Requester's reference (I applicable): L2/06-054 6. Choose one of the following: Yes a. This proposal is for a new script (set of characters): Proposed name of script: D. The proposal is for a new script (set of characters): Proposed (mare of script: 0. The proposal is for a new script (set of characters): Proposed (are of script: 0. The proposal is for a new script (set of characters): Proposed (are of script: Proposed (are of script: 0. The proposal is for a new script (set of characters): Proposed (are		L2/06-054
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Intervery our are using the later form interview studied. In USE 2014/2010281/mmms/orm.html. See also interview our are using the later form interview studied. In USE 2014/2010281/mmms/orm.html. Administrative Administrative Intile: Proposal for the Addition of Math Characters Requester's name: Asmus Freytag, Barbara Beeton, Murray Sargent Sequester's reference (if applicable):	Please fill all the sections A, B and C below.	
Please ensure you are using the latest Form from http://www.dkuug.dk/TC1/SC2WG2/doce/summa/pm.html. See also http://www.dkuug.dk/TC1/SC2WG2/doce/summa/pm.html. Administrative 1. Title: Proposal for the Addition of Math Characters 2. Requester's name: Asmus Freytag, Barbara Beeton, Murray Sargent 3. Requester's name: Asmus Freytag, Barbara Beeton, Murray Sargent 3. Requester's reference (if applicable): Individual 4. Submission date: 22/066 5. Requester's reference (if applicable): Individual (or) More information will be provided later: 22/066 8. Technical - General Individual 1. Choose one of the following:	guidelines and details before filling this form.	<u>s/principles.numi_</u> tor
See also Intro//www.dkuud.dk/11C1SC2WG2/Gocsroadmaps.html. for latest Roadmaps. A Administrative 1. Title: Proposal for the Addition of Math Characters 2. Requester's name: Aanue Freytag, Babbara Beeton, Murray Sargent 3. Requester to reference (if applicable): L2064.054 6. Robose one of the following: 21106 6. Choose one of the following: Yes a. This proposal is for a new script (set of characters): Proposed name of script b. The proposed is for a new script (set of characters): Proposed name of script b. The proposed is for a new script (set of characters): Proposed category (select one from below - see section 2.2 of P&P document): A-Contemporary A. B. 1-Specialized (small collection) B.2-Specialized (large collection) C-Adjor extinct D-Attested extinct C-Obstanable usage symbols 4. Proposed Level of Implementation (1, 2 or 3) (see Annex K in P&P document): 1 b. a repertoire including character names provided?	Please ensure you are using the latest Form from http://www.dkuug.dk/JTC1/SC2/WG2/docs/summ	aryform.html.
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¹ Form number: N3002-F (Original 1994-10-14; Revised 1995-01, 1995-04, 1996-04, 1996-08, 1999-03, 2001-05, 2001-09, 2003-11, 2005-01, 2005-09, 2005-10)

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C. Technical - Justification

1. Has this proposal for addition of character(s) been submitted before? If YES explain	no
2. Has contact been made to members of the user community (for example: National Body, user groups of the script or characters, other experts, etc.)? If YES, with whom?	yes
If YES, available relevant documents: 3. Information on the user community for the proposed characters (for example:	
size, demographics, information technology use, or publishing use) is included? Reference:	No
4. The context of use for the proposed characters (type of use; common or rare) Reference:	mathematicx
5. Are the proposed characters in current use by the user community?	yes
 After giving due considerations to the principles in the P&P document must the proposed charac in the BMP? 	ters be entirely
If YES, is a rationale provided?	No
 7. Should the proposed characters be kept together in a contiguous range (rather than being scatter 8. Can any of the proposed characters be considered a presentation form of an existing 	ered)? Yes
character or character sequence? If YES, is a rationale for its inclusion provided?	No
If YES, reference: 9. Can any of the proposed characters be encoded using a composed character sequence of eithe	r
existing characters or other proposed characters?	No
If YES, reference:	
to an existing character?	Yes
If YES, is a rationale for its inclusion provided?	res
 Does the proposal include use of combining characters and/or use of composite sequences? If YES, is a rationale for such use provided? If YES, reference: 	<u>No</u>
Is a list of composite sequences and their corresponding glyph images (graphic symbols) pro If YES, reference:	vided?
12. Does the proposal contain characters with any special properties such as control function or similar semantics?	No
 13. Does the proposal contain any Ideographic compatibility character(s)? If YES, is the equivalent corresponding unified ideographic character(s) identified? If YES, reference: 	No

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Proposal

The following characters are proposed for addition to AMD 3

U+27EC [MATHEMATICAL LEFT WHITE TORTOISE SHELL BRACKET

- \rightarrow U+3018 left white tortoise shell bracket
- \rightarrow U+2997 left black tortoise shell bracket

U+27ED] MATHEMATICAL RIGHT WHITE TORTOISE SHELL BRACKET

- \rightarrow U+3019 right white tortoise shell bracket
- → U+2998 right black tortoise shell bracket

Rationale and Background

The proposed disunification is analogous to that carried out for other brackets in the CJK Punctuation block. Unlike the CJK characters, which reside in the right or left half of their display cell, the mathematical characters do not carry additional whitespace as part of their glyph. In a mathematical context, they would be formatted to grow in size according to the expression they delimit.

The proposed characters are in the STIX collection of mathematical characters which is the source set for additions to the mathematical characters. In the STIX collection their source is listed as the ISOTECH entity set., which is a set that Unicode attempts to cover. They had been inadvertently omitted from previous proposals, but were found as part of the review of the STIX collection against pending additions for Unicode 5.0.

Urgency

Their addition is in some ways urgent, because a font commissioned based on the STIX collection is about to be released, which would effectively freeze the choice of preferred code point for the character with all attendant problems if the characters remained unified with CJK punctuation.

Completeness of Proposal

The STIX collection does not contain any reference to the last remaining set of CJK brackets that don't have a non-CJK counterpart (lenticular brackets at 3016 and 3017). These are currently not required for mathematical use, but it may be wise to complete the disunification at this point, rather than risk that implementations begin using the CJK forms.

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