



GEMaC

Groupe d'Étude
de la Matière Condensée

TOWARDS ULTRAFAST SPINTRONICS : TERAHERTZ NON-UNIFORM SPIN DYNAMICS DRIVEN BY FEMTOSECOND SPIN CURRENT PULSES

par Ilya RAZDOLSKI, du Fritz-Haber-Institute of Max Planck Society de Berlin

> Résumé [DOCX - 15 Ko]/**/<!-- /* Font Definitions */@font-face {font-family:Arial; panose-1:2 11 6 4 2 2 2 2 4; mso-font-charset:0; mso-generic-font-family:auto; mso-font-pitch:variable; mso-font-signature:-536859905 -1073711037 9 0 511 0;}@font-face {font-family:"Cambria Math"; panose-1:2 4 5 3 5 4 6 3 2 4; mso-font-charset:0; mso-generic-font-family:auto; mso-font-pitch:variable; mso-font-signature:-536870145 1107305727 0 0 415 0;}@font-face {font-family:Calibri; panose-1:2 15 5 2 2 2 4 3 2 4; mso-font-charset:0; mso-generic-font-family:auto; mso-font-pitch:variable; mso-font-signature:-520092929 1073786111 9 0 415 0;} /* Style Definitions */p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-unhide:no; mso-style-qformat:yes; mso-style-

parent: ""; margin-top: 0cm; margin-right: 0cm; margin-bottom: 10.0pt; margin-left: 0cm; line-height: 115%; mso-pagination: none; font-size: 11.0pt; font-family: Calibri; mso-ascii-font-family: Calibri; mso-ascii-theme-font: minor-latin; mso-fareast-font-family: Calibri; mso-fareast-theme-font: minor-latin; mso-hansi-font-family: Calibri; mso-hansi-theme-font: minor-latin; mso-bidi-font-family: "Times New Roman"; mso-bidi-theme-font: minor-bidi; mso-ansi-language: EN-US; mso-fareast-language: EN-US; }.MsoChpDefault {mso-style-type: export-only; mso-default-props: yes; font-size: 11.0pt; mso-ansi-font-size: 11.0pt; mso-bidi-font-size: 11.0pt; font-family: Calibri; mso-ascii-font-family: Calibri; mso-ascii-theme-font: minor-latin; mso-fareast-font-family: Calibri; mso-fareast-theme-font: minor-latin; mso-hansi-font-family: Calibri; mso-hansi-theme-font: minor-latin; mso-bidi-font-family: "Times New Roman"; mso-bidi-theme-font: minor-bidi; mso-ansi-language: EN-US; mso-fareast-language: EN-US; }.MsoPapDefault {mso-style-type: export-only; margin-bottom: 10.0pt; line-height: 115%; mso-pagination: none; }@page WordSection1 {size: 596.0pt 842.0pt; margin: 49.0pt 51.0pt 0cm 51.0pt; mso-header-margin: 37.45pt; mso-footer-margin: 36.0pt; mso-paper-source: 0; }div.WordSection1 {page: WordSection1; }@page WordSection2 {size: 596.0pt 842.0pt; margin: 49.0pt 51.0pt 14.0pt 52.0pt; mso-header-margin: 37.45pt; mso-footer-margin: 0cm; mso-paper-source: 0; }div.WordSection2 {page: WordSection2; }-->/**/

/<!-- /* Font Definitions */@font-face {font-family: Arial; panose-1: 2 11 6 4 2 2 2 2 4; mso-font-charset: 0; mso-generic-font-family: auto; mso-font-pitch: variable; mso-font-signature: -536859905 -1073711037 9 0 511 0; }@font-face {font-family: Times; panose-1: 2 0 5 0 0 0 0 0 0; mso-font-charset: 0; mso-generic-font-family: auto; mso-font-pitch: variable; mso-font-signature: 3 0 0 0 1 0; }@font-face {font-family: "Ｍ Ｓ 明 朝"; mso-font-charset: 78; mso-generic-font-family: auto; mso-font-pitch: variable; mso-font-signature: -536870145 1791491579 18 0 131231 0; }@font-face {font-family: "Cambria Math"; panose-1: 2 4 5 3 5 4 6 3 2 4; mso-font-charset: 0; mso-generic-font-family: auto; mso-font-pitch: variable; mso-font-signature: -536870145 1107305727 0 0 415 0; }@font-face {font-family: Cambria; panose-1: 2 4 5 3 5 4 6 3 2 4; mso-font-charset: 0; mso-generic-font-family: auto; mso-font-pitch: variable; mso-font-signature: -536870145 1073743103 0 0 415 0; } /* Style Definitions */p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-unhide: no; mso-style-qformat: yes; mso-style-parent: ""; margin: 0cm; margin-bottom: .0001pt; mso-pagination: widow-orphan; font-size: 11.0pt; font-family: Cambria; mso-ascii-font-family: Cambria; mso-ascii-theme-font: minor-latin; mso-fareast-font-family: Cambria; mso-fareast-theme-font: minor-latin; mso-hansi-font-family: Cambria; mso-hansi-theme-font: minor-latin; mso-bidi-font-family: "Times New Roman"; mso-bidi-theme-font: minor-bidi; mso-fareast-language: EN-US; }.MsoChpDefault {mso-style-type: export-only; mso-default-props: yes; font-size: 11.0pt; mso-ansi-font-size: 11.0pt; mso-bidi-font-size: 11.0pt; font-family: Cambria; mso-ascii-font-family: Cambria; mso-ascii-theme-font: minor-latin; mso-fareast-font-family: "Ｍ Ｓ 明 朝"; mso-fareast-theme-font:

minor-fareast; mso-hansi-font-family: Cambria; mso-hansi-theme-font: minor-latin; mso-bidi-font-family: "Times New Roman"; mso-bidi-theme-font: minor-bidi; mso-ansi-language: EN-GB; mso-fareast-language: JA;}@page WordSection1 {size: 612.0pt 792.0pt; margin: 70.85pt 70.85pt 70.85pt 70.85pt; mso-header-margin: 36.0pt; mso-footer-margin: 36.0pt; mso-paper-source: 0;}div.WordSection1 {page: WordSection1;}-->/**/**/ <!-- /* Font Definitions */@font-face {font-family: Arial; panose-1: 2 11 6 4 2 2 2 2 4; mso-font-charset: 0; mso-generic-font-family: auto; mso-font-pitch: variable; mso-font-signature: -536859905 -1073711037 9 0 511 0;}@font-face {font-family: "宋体"; mso-font-charset: 78; mso-generic-font-family: auto; mso-font-pitch: variable; mso-font-signature: -536870145 1791491579 18 0 131231 0;}@font-face {font-family: "微软雅黑"; mso-font-charset: 78; mso-generic-font-family: auto; mso-font-pitch: variable; mso-font-signature: -536870145 1791491579 18 0 131231 0;}@font-face {font-family: Cambria; panose-1: 2 4 5 3 5 4 6 3 2 4; mso-font-charset: 0; mso-generic-font-family: auto; mso-font-pitch: variable; mso-font-signature: -536870145 1073743103 0 0 415 0;} /* Style Definitions */p.MsoNormal, li.MsoNormal, div.MsoNormal {mso-style-unhide: no; mso-style-qformat: yes; mso-style-parent: ""; margin: 0cm; margin-bottom: .0001pt; mso-pagination: widow-orphan; font-size: 11.0pt; font-family: Cambria; mso-ascii-font-family: Cambria; mso-ascii-theme-font: minor-latin; mso-fareast-font-family: Cambria; mso-fareast-theme-font: minor-latin; mso-hansi-font-family: Cambria; mso-hansi-theme-font: minor-latin; mso-bidi-font-family: "Times New Roman"; mso-bidi-theme-font: minor-bidi; mso-fareast-language: EN-US;} .MsoChpDefault {mso-style-type: export-only; mso-default-props: yes; font-size: 11.0pt; mso-ansi-font-size: 11.0pt; mso-bidi-font-size: 11.0pt; font-family: Cambria; mso-ascii-font-family: Cambria; mso-ascii-theme-font: minor-latin; mso-fareast-font-family: "宋体"; mso-fareast-theme-font: minor-fareast; mso-hansi-font-family: Cambria; mso-hansi-theme-font: minor-latin; mso-bidi-font-family: "Times New Roman"; mso-bidi-theme-font: minor-bidi; mso-ansi-language: EN-GB; mso-fareast-language: JA;}@page WordSection1 {size: 612.0pt 792.0pt; margin: 70.85pt 70.85pt 70.85pt 70.85pt; mso-header-margin: 36.0pt; mso-footer-margin: 36.0pt; mso-paper-source: 0;}div.WordSection1 {page: WordSection1;}-->/**/