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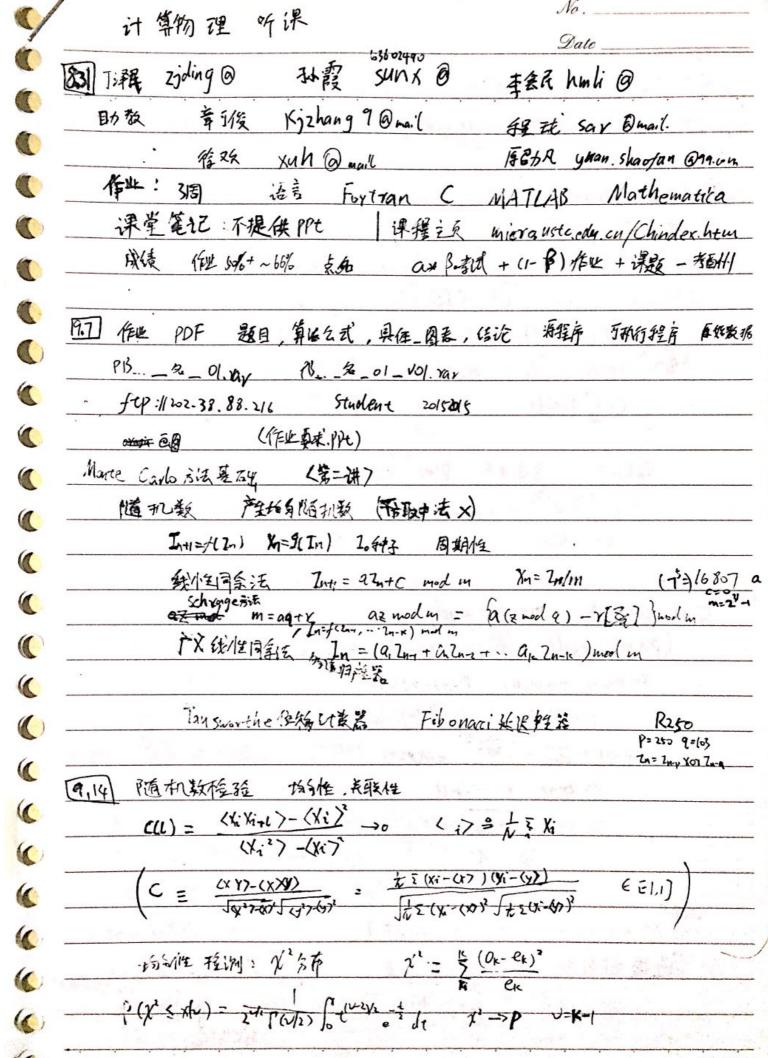
```
· Monte Coulo 方法基础
   1. 阳南机颤产器(如木制断石雀:周期《阳机性 趣)
          线性同学法 ( Int = (alu+b) mod m
Yu= In/m
                    16807: a=75=16807 b=0 m=23-1=2147483647
                     Schlage sit: m=aq+v ==
                              az mod m = [ = (aq+v) - \frac{vz}{q} ] mod m
                                                = {a·(z mod q) - Y[3]} mod m
     2.份随机器的线针检验
             対立性: 拍義性分数 C(A_{j}^{1}) = \frac{\langle A_{i}^{1} \rangle - \langle A_{i}^{2} \rangle}{[A_{i}^{1} \gamma - \langle A_{j}^{2} \rangle]} \Rightarrow C(U) = \frac{\langle A_{i}^{1} \rangle - \langle A_{i}^{2} \rangle^{2}}{\langle A_{i}^{1} \rangle - \langle A_{i}^{2} \rangle^{2}}

 that : t' = \frac{k}{2} \frac{(O_{k} - e_{k})^{2}}{e_{k}} \qquad P(\chi^{2} \leq \chi |_{V}) = \frac{1}{2^{2}} \frac{\langle A_{i}^{2} \rangle - \langle A_{i}^{2} \rangle^{2}}{e_{k}^{2}} de
                           另一种检验 |〈芥〉-前 | ~0 協) | (は)~ (法)
     3.抽棒直接抽样
               离散 x~pi 5~k(0,1) Pi <5< xpi → Xn
               连续 Y \sim P(x) \{-R(x)\} \{-\int_{0}^{x} P(x) dx \{X = F'(\xi)\}
      4. 变换抽样记 POOS= 1 ~ S= 元 CANSINA + ~ X= Gir (不5至) ~ X= GSZRS
           purious gryldy pas= xtet ~ s= 1-et ~ x= -xling
              p(x) = \left| \frac{dy}{dx} \right| g(y) \qquad p(x) = \frac{1}{\pi} \frac{dy}{dx} \qquad \sim S = \frac{1}{\pi} + \frac{1}{\pi} \operatorname{arctanx} \qquad x = - \operatorname{tcm} \pi \left( \left( \frac{1}{\pi} - \frac{1}{2} \right) \right)
           P(x,y) = \left| \frac{\partial(u,v)}{\partial(x,y)} \right| g(u,v)
                  Box-Mullerita ( X= Izlan coszar ) ( u= e x y x y = x y x y x y = 1/2 tent y x y = 1/2 tent y x y (u,v)=1
                  Marsaglia site u, v ER(O1) u1+v2= y2 $ [ (x, 5/2)= (2W1-72, 2W1-72, 1-2x2)
                                        四维体 パーメナナリンショ ハータラウルショ (ソ、火,岩丁水, 光丁一水)
       5名法由样法 对 pux) = Ihoo g(x,y)dy (= I'm dx I'm dy g(xy)
                                                     mo dx (ha) supply (= [40 dx (4) dy g(x, y)
                         14 & h((x) - P) (x ~ PU)
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	=
海中が布 F(x) アルハ	
P(x)=2x [6,1]	
東分布 $P(x) = h(x) q(x)$	
in ~ (0x) Mis₂ < h(ix).	
$p(x) = 25^{\frac{1}{2}} \sqrt{x}e^{-\beta x}$ $1_x = 2 e^{-1} \ln 1$, $1_x^2 = 2 e^{-1} \ln$	de-d
6.支积分计算	
(封地石注) 平均高值注 T(bi-ai)·长至f(xe,Xe,···Xn) (XeXz,···Xn) GREai.bi	1800
24) 41 41.74); = 10	
成·安捷取法 [cf(x)-g(x))dx + fg(x)dx	
The second secon	
重要描述法 Sfex dx = Sfex gcx dx Sgcx) (
19年 9(s) ∑ (s) ∑ (s)	
- XI: (2.4)	
二. 越行 分形 混沌	
1. 真直接出行证 牛顿 生代法 混合输入代法	
2. 混起 Feigenbaum 常数 No - Non= A8-m du → a di =5%包括的技术	गोर्गिह
内. This find's 今成化工作 客区社 & Feigenbaum等段	
中的31子与异级31子 Lype unov 指数化 dun = dxo enl'	
Julia @ Mandelbroe 集: Zn+1=Zn+C, 复z 变C	
3. 分形 维数 D= LUNG) 放大图形的法: NUL)=LD	
粗糙峨 N~ ED (圆翅维发)	
粗糙的初 InAce)/E ~lu Pcc/E 斜年	
in Truste ~ in Taxile site	
海计数法	
林好练,辛符辛生马统	
元户自立方机	
No-jrow - 4& zige a style	

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一.7陷机行走 RW (right) OCN	
自双进陷护治达 SAW	
指数 V(n)=1 ln <r an)<="" th=""><th>· St. Mic 为有中方的总择数</th></r>	· St. Mic 为有中方的总择数
8年长河题 DLA	
Laplace $4k$ $\phi_0 = \phi(5) - \frac{h^3 k!}{4} 4k$	
9.粒子运输问题 建成大分子	
10. 阅读问题 154) = 集团数/找收益数 115==	She 李维格在属于大个s 节况年
5= 25Ws = 25ms 使国平场大小 }	最大的是
R3 = 号 1(vi-V) 图积料 15=25 3 (Yi-Y)) •
逾遇极年 Р。(3) 在一次点篇7天方大年团的招级	*
重整化群 b放大图子 P=P(P) 不论, P	* BPc6s16/1x
$\lambda = \frac{d\rho'}{d\rho}$ $\nu = \frac{l_0 b}{l_0 \lambda}$	
三 重動抽样 as Mante (ands 技机	
Metropolisist in-P Knowp'	p'>ps e- \$4
正则复锋:直接使用	
	= U(1) - U Et # Ed += SU
恒1/17:附加各科V 为陨年的体教经	插桶和拉升铅的



FREW MI TO PAX) = $\sqrt{\frac{1}{2}}e^{-\frac{x^2}{2}}$ (0,17) $\sqrt{\frac{1}{2}}e^{-\frac{x^2}{2}}$ $\sqrt{\frac{1}{2}}=\sqrt{\frac{1}{2}}\frac$		
#####################################		No.
$ \begin{cases} = \int_{a}^{5x} F(x) dx \middle _{a}^{5} F(x) dx \implies 5x = 5x(5x) & 5y = 5 \cdot F(5y) & 5y < p(6x)? \end{cases} $ $ \begin{cases} F(x) = \int_{a}^{5x} F(x) dx \middle _{a}^{5} F(x) dx \implies 5x = 5x(5x) & 5y = 5 \cdot F(5y) \end{cases} $ $ \begin{cases} f(y) = \int_{a}^{5x} F(x) dx \middle _{a}^{5} F(x$	- 900	Date · ·
**PFG) M: 181 PX) = $\sqrt{\frac{1}{2}}e^{-\frac{\pi}{2}}$ 10.77) FW: $\frac{\pi}{2}e^{-\frac{\pi}{2}}$ $S_1 = \int_0^{S_{T}} FGGdx \int_0^{L} FGxxxx \int_0^{L} FGxxx \int_0^{L} FGxxxx \int_0^{L} FGxxx \int_0^{L} FGxxxx \int_0$	抽样级率 (人)	P(x) (注注度证下(x) 下的结合的)
$ \int_{0}^{\infty} \int_{$	$\begin{cases} = \int_{\alpha}^{\xi_{x}} F(x) dx / \int_{\alpha}^{\xi_{y}} F(x) dx \implies \xi_{x} = \xi_{x}(\xi_{y}) \end{cases}$	Sy = S. F(Sy) Sy < p(Sx)?
$ \begin{aligned} & \int_{S} = S \cdot F(S_{1}) = \prod_{K} S_{1}S_{2} & S_{X} = -luS_{1}, \\ & \int_{S} = S \cdot F(S_{1}) = \prod_{K} S_{1}S_{2} & S_{X} = -luS_{1}, \\ & \int_{S} = S \cdot F(S_{1}) = \prod_{K} S_{1}S_{2} & S_{X} = -luS_{1}, \\ & \int_{S} = S \cdot F(S_{1}) = \prod_{K} S_{1}S_{2} & S_{2} \cdot S_{1}S_{2} & S_{2} \cdot S_{1}S_{2} & S_{2} \cdot S_{2}S_{2} & S_{2} \cdot S_{2} & S_$	常(FC) - (M) (M) = 原e	
$S_{y} = S_{y} + S_{y} = \frac{\text{Te}}{\text{Fd}} (1)_{y} $ $S_{y} = -\text{In}_{y},$ $S_{y} = -\text{In}_{y},$ $S_{y} = \frac{\text{Fd}}{\text{Fd}} (1)_{y} + \frac{\text{Fd}}{\text{Fd}} ($		
$g(x,y) = \begin{cases} q(x)/M & ocycm \\ p(x) = \int_{0}^{B(x)} g(xy) dy = \frac{M(x)}{2} f(x) = p(x) \\ \int_{-\infty}^{5x} q(x) dx & \int_{0}^{5x} q(x) dx & \int_{0}^$	Sy= 5.F6,) = 麗幻	
$g(x,y) = \begin{cases} q(x)/M & ocycm \\ p(x) = \int_{0}^{B(x)} g(xy) dy = \frac{M(x)}{2} f(x) = p(x) \\ \int_{-\infty}^{5x} q(x) dx & \int_{0}^{5x} q(x) dx & \int_{0}^$		· Marian Marian
$\int_{-\infty}^{\infty} q(x)dx^{2} = \frac{\int_{-\infty}^{\infty} q(x)dx^{2}}{\int_{-\infty}^{\infty} q(x)dx^{2}} = \frac{\int_{-\infty}^{\infty} q(x)dx^$	77.11.000	
安计算 = 5件3>-40 fdv=v[4>=5] 型 双京 排码注 律 火-规能程	$b(x) = \int_{0}^{h(x)} g(x,y) dy = \frac{h(x)}{1}$	*) - = p(x)
中央市场建建	$\int_{-\infty}^{5x} q(x) dx^2 \int_{-\infty}^{5} f_y = M \int_{0}^{5} f_y < h(x)$?
= J(47)-40 fdv=V[47=5] 在 文面 种的位置		
= J(47)-49 (fdv=v[4)=5) 型 以底 种的位法	分计算	La la company de
	77	如何 我的话
1- 6x1 - (x)-(X)2 6V (X, y) - 1x23-12-22	中央一根附近理	
YOVEN - CAYTERAST	Vovex) = (x'>-(x)2 6v(x,y)	= (xy>-(x×y>

((定积分计算 (fdv = V [4) \$ 50) 5x= J(+37 -427 (大发生学 火一根性定理 (60 (x,y) = (xy)-(x) Vov(x) = (x >-(x)2 (SOY (C.) = LOV (XX) ((YMY (X+y) = var(x) trav(y) +208(xy)

姚玄燮曼 (VAY ZXi = 2 Var (Xi) PI STIMINIX OGO = TWIRXOZ = TX (

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* 4 dets (prax)" p("ince)= hm > ((x) >4. (Z) = \$(2) = 1/2 e = 2

lim & (K)>M(<= iin > (K)>M) < (F) = Lh p((F) >) M~NE

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$ \int_{0}^{1} f(x) dx = \int_{0}^{1} f(x) \int_{0}^{1} f(x) dx = \int_{0}^{1$
(\$44) $\int_{-\infty}^{\infty} f(x) dx = \int_{-\infty}^{\infty} f(x) f(x) dx = \int_{-\infty}^{\infty} f(y) dy = \int_{-\infty}^{\infty} f(y) $
$\int_{a}^{b} f(x) dx = \int_{a}^{b} f(x) dx = \int_{a}^{b} \frac{f(y)}{g(y)} dy = \int_{a}^{b} \frac{f(y)}{g(y)}$ $\int_{a}^{b} f(x) dx = \int_{a}^{b} \frac{f(y)}{g(y)} dy = \int_{a}^{b} \frac{f(y)}{g(y)}$ $\int_{a}^{b} f(x) dx = \int_{a}^{b} \frac{f(y)}{g(y)} dy = \int_{a}^{b} \frac{f(y)}{g(y)}$ $\int_{a}^{b} f(x) dx = \int_{a}^{b} \frac{f(y)}{g(y)} dy = \int_{a}^{b} \frac{f(y)}{g(y)}$ $\int_{a}^{b} f(x) dx = \int_{a}^{b} \frac{f(y)}{g(y)} dy = \int_{a}^{b} \frac{f(y)}{g(y)}$ $\int_{a}^{b} f(x) dx = \int_{a}^{b} \frac{f(y)}{g(y)} dy = \int_{a}^{b} \frac{f(y)}{g(y)} dy = \int_{a}^{b} \frac{f(y)}{g(y)}$ $\int_{a}^{b} f(x) dx = \int_{a}^{b} \frac{f(y)}{g(y)} dy = \int_{a}^{b} \frac{f(y)}$
$\int_{a}^{b} f(x) dx = \int_{a}^{b} f(x) dx = \int_{a}^{b} f(x) dy = \int_{a}^{b} \frac{f(y)}{g(y)}$ $\int_{a}^{b} f(x) dx = \int_{a}^{b} \frac{f(y)}{g(y)} dy = \int_{a}^{b} \frac{f(y)}{g(y)}$ $\int_{a}^{b} f(x) dx = \int_{a}^{b} \frac{f(y)}{f(x)} dy = \int_{a}^{b} \frac{f(y)}{g(y)}$ $\int_{a}^{b} f(x) dx = \int_{a}^{b} \frac{f(y)}{f(x)} dy = \int_{a}^{b} \frac{f(y)} dy = \int_{a}^{b} \frac{f(y)}{f(x)} dy = \int_{a}^{b} \frac{f(y)}{f(x)} d$
神智运动 Suduchowski 注述 (M) = $\sqrt{\frac{N!}{2!}}$ ($\frac{N!}{2!}$)
$\langle m \rangle = 0$ $\langle m^2 \rangle = 1$ $\langle \chi^2(\tau) \rangle = \langle m^2 \rangle l^2 = \eta l^2 - l^2 \frac{t}{t} = 2Dt$ $(D = \frac{R^2}{2\tau})$ $f_1 \approx \frac{1}{2} \approx \frac{1}{2$
($\chi^{2}(\tau)$) = $4m^{2}$) $\ell^{2} = \eta \ell^{2} = \ell^{2} = 2Dt$ ($\eta = \frac{1}{2\tau}$) 打器度指数 $\int \chi(\tau) \cot z'$
打器度指数 $\int x(\overline{t}) \cot z'$ $h! \sim \int \overline{x} \ln \left(\frac{\pi}{t}\right)^n \log \int n(m) \approx -\frac{1}{2} \ln n + \ln 2 - \frac{1}{2} \ln 2\pi - \frac{m^2}{n} + (n+1) \frac{m^2}{2n^2}$ $\alpha \ln \frac{2}{n} - \frac{m^2}{2n} \int n(m) \propto \frac{2}{12\pi n} e^{-\frac{m^2}{2n^2}}$
$h \approx J \propto n \left(\frac{1}{e}\right)^n \qquad log p_n(m) \approx -\frac{1}{2} l n n + l_n 2 - \frac{1}{2} l n (2\pi) - \frac{m^2}{n} + (n+1) \frac{m^2}{2n^2}$ $\approx l_n \approx \frac{2}{n} - \frac{m^2}{2n} \qquad p_n(m) \approx \frac{2}{J_2 \propto n} e^{-\frac{m^2}{2n^2}}$
$\frac{2}{\ln \frac{2}{\ln n}} - \frac{m^2}{2n} \int_{n(m)} \frac{2}{n} \frac{2}{12\pi n} e^{-\frac{m^2}{2n^2}}$
VZKM
M= { h= = } Pn>>, (m) = ZL = 40e
$a_{m=2}$ $d_{x=lom=2l}$ $l_{ncm} = p(x,t)dx$
$P(x,t) = \sqrt{\frac{x^2}{4Dt}} e^{-\frac{x^2}{4Dt}} \sim N(0, 2Dt)$ $\int_{x} = \sqrt{2Dt}$
=> $\frac{2}{2} = 10 \frac{3}{2}$ Thin $\vec{J} = -0.7$ $\vec{J} = -0.7$ $\vec{J} = -0.7$

p(0)=p(-0) [= pwido =1 t(xt+2) dx = dx ft foxto, t) pcodx f(xttz) = f(xt)+t dxxty p(HO, 1) = f(x, 1) >f(x, 1) 0 + 4 = 3/4(-1) 02 11/ \$ = D = \(\sigma \sigma \) = \(\sigma \sigma \) = \(\sigma \sigma \) = \(P(x,t72) = = [p(x+t,t)+p(x-t,t)] = [p(x+ti)-p(x+t)] = p (p(x+t;+)-p(x+1)) -(p(x+t)-p(x-t,+)) 扩散注程 1 三维 6 Dt (Ace)7=(A(0)=(A) SEA(+1) = 4+1-<A> 冰灰 ((a) = (A^L) - (A)² (A(t) A(t)) (A)² ((dx=vde 1(x) = (v) d(x2) = 2(x1) \$\frac{1}{2}\con(\chi) = \frac{1}{2}\(\chi\chi) = 2\(\chi\chi) - 2\(\chi\chi\chi) = 2\(\chi\chi\chi) (Y(+)-16) = 50 Evct'/dt' $\frac{d}{dt} var \{v(t)\} = \frac{1}{4} \langle (v(t) - v(t))^{t} \rangle = 2 \langle (v(t) - v(t)) \cdot v(t) \rangle$ $= 2 \int_{-t}^{t} \langle v(t') \cdot v(t) \rangle dt' = 2 \int_{0}^{t} \langle v(t') \cdot v(t') \cdot v(t') \rangle dt'$ ((= 2 t(vit'). v(0) dd -> 60 (D = - 10 <vct) · vw)>dt = 100 cc+)dt (

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		phy sun	16				
10115	进行流						
450	BHILL X	x- 9(4)	947- f(x) - X				
		7.767					
-4/2	Logistic ;	(9) Xm+	11 = 1 Xn(Xn	+1) Y 04	1 hong		
0,19) 3	岩周期から	Ĺı					
Feigen	baum 草較	Nos-An	= 45 m	donne ->	x -1		
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青年 四八	1313						
五份美	统分 Lover	7 3 4 4	X = 54	x) dr =	7x -xz - y	# = Xy	- b2
Röss	lar 0/373					W.C.	
		<u> </u>	74				
X' = Cin	基氏电	Yapunov F	£ ¥6 2018	1七 公司科			
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	MATERIAL CHESTON CONTRACTOR		-			The state of the s	The special street of the stre
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26. 6 (4x) = 200 (1-420+24) Ja = 27/2 Ja Single 25 218/4/2 1 1/4/4
    177-18:6+63
首游
         细梅法
    Monte Carlo $ Ex Rifix
 1.酸加种野与龙闸(披蓬度河、没是)
 2.中心 松阪圭理(滋存、逆奈谷)
  3布的区的(随柳行走、多缘平均、方均极役约、正奈紡、溪路)
 4. 前分银钱型(自改炼产进机行主、平均为理论、超行先紧锁的影片、方均积位线、方定特数)
  5. 陷机Ng生民核型、电子输运分散射
   · 角次 扶型(括弦、临器器、NO相变、重整化群)
 [络冠记 使整子你 的trepse 发方下)
 2.全套指挥(Mark-V5、充环、细致预查)
  4.投作图1
多は軒的 (A >= JARP) P(2.p,2)dedp
「P(2.p.2)dedp
            4 = 0
Li ouville# 52
                               Sevindo = Spido = J 7. (PV) dr
     => 3e fpd 1 =- [(3.PV)d1 => 3e + 7]=0
  6= 3e 7 [(3(ph)) + 3(pp)) = 3p + [(3pp q + 3pp p) + 0 = dp = 3e + [(3pp q) + 3pp p)
      ( 39i = 34 = 34 = 37i)
    1 ARIGE [PH]=0
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,	假产 P(9-9)=C 微处区以分级
)	CA> = 1/2 /A(4,P)ds
	PZH显函数 P=P[H(NP)] 正则争编、准备海湖为 Botezmann有
	分子理论
3	正则至疾下(N,V,T) 的能 微例经系(N,V,E) 鸨
	Helmbdtz
	EERIS G (N.P.T) Massien画版 等温新线 G (N.P.T) Subs 白色
	186201116
9	$U(E) = ITU$ $VU = \frac{V_{AN} Ni}{\sqrt{g}}$ $\int_{E} VU = U(E+OE) - U(E) = U(E) \circ E$ $\partial E := U(E)$
	P(Q,17) 2 { 1/[dE)OF] if ESH(Q,P) SE+OF (A> = I lin in A(Q,P) ds?
	St >0 (NVE = String)-E] ZME = SSCH(Ap)-E] ZME =
	協 S(N,V,E)= kln ZNVE
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2901	2016年
	巨型引生结 Olugh = olig = Bu
() o	∞eβE eβH
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	[발생님은 18] [[[생생] [[생생] [[생] [[생] [[생] [[생] [[생]

TIN 客友运的程论(UFT)简介	
2 A hird's s-age were of density functional theory)	
(The AIX of DFT)	
(里水醇一个4年…)	
打对分类及更好描述的 维度 O(TEX 做数的 量子点	45.0
1维 经收货 古黑的 似人 2维 题 在品格里于19 张母7维用年1年	
长行 经程序 品 报 液	
報言式 数本的体(链线) 新红色(等5.红) 金属键(3) 分子的 bonder Wallston 新疆	絕其詩
第一个生 1523 12 在我的人们就知识 15-112	6 KEE .
(74(x,R)=E4(x,R) x= (v,s)	= (-15)
H = - [2 \ 7 + \ \frac{2}{165 \(\text{N'-1/5} \) - \ \frac{2}{2m} , \(\text{Vis.} \) - \(
$ \begin{array}{cccccccccccccccccccccccccccccccccccc$	
Hoveree Gisk fie Ye=4.花十 内庭:不具有交换成对给/性	
Forkibly He = zhai) + zhaisi) Enr = zahi) + zlaisis]-(-ziliz)	-
点 → LCAO-Mo. 计算是大 10M266准	
DET P(v) E(P) = T(P) + SVP di + 1 SSPRV) dids + Exc(P)	
MEN ZK GKYSTAL VASP Gaussian	tak .
VASP: POSCAR WIGH POTCAR KNINIS INCAR	3
12.7 exp-BH (e-PE)	
Maylov 214	
(2.14) y= e-1/KT = e-0E/KT	
$P = \frac{e^{-\frac{2\pi}{2}}}{2(7)} z(7) = \frac{e^{-\frac{2\pi}{2}}}{2(7)}$	San S
ARTHRIBUNIA 0-4	
The state of the s	
17.2 11/02/2017/10 10 10/10/2019	
一片(陈 欧拉州线流 显示 隐示 钱银络法	