1" EIZE N/11E - 3 ACCU

 $F(M_{spike}) = E(\sqrt{2} \sum_{i=1}^{N} n_{i}) = \sqrt{2} E(n_{i}) = \sqrt{2} \sum_{i=1}^{N} \mu_{i}$ = 7 $=\frac{1}{N}NM=M.$ $\frac{7''(n)}{5(n)} = \frac{1}{8} = \frac{1}{9} - \frac{1}{10} = 0$ $\frac{1}{5(n)} = \frac{1}{10} - \frac{1}{10} = 0$ (A) $E(Maxon) = E(\sqrt[7]{E(n_i - \bar{n})^2})$ TE E ((n;-h)-(n-m))2 $= \frac{1}{N} \left\{ \sum_{i=1}^{N} (n_i - \mu)^2 - 2(n_i - \mu)(n_i - \mu) + (n_i - \mu)^2 \right\}$ $= \frac{1}{N} \left\{ \sum_{i=1}^{N} E(n_{i} - \mu_{i})^{2} - 2(\bar{n} - \mu_{i}) \sum_{i=1}^{N} E(n_{i} - \mu_{i}) + \sum_{i=1}^{N} E(\bar{n} - \mu_{i})^{2} \right\}$ = $\frac{1}{N} \left\{ \sum_{i=1}^{N} (u_i - h_i)^2 - \lambda (\bar{u} - \mu) N (\bar{u} - \mu) + N \cdot E(\bar{u} - \mu)^2 \right\}$

$$= E \left\{ \frac{1}{N} \sum_{i=1}^{N} (n_{i} - u)^{2} - 2(n - u)^{2} + (n - u)^{2} \right\}$$

$$= E \left\{ \frac{1}{N} \sum_{i=1}^{N} (n_{i} - u)^{2} - (n - u)^{2} - E(n - u)^{2} \right\}$$

$$= \frac{1}{N} \cdot \sum_{i=1}^{N} E(n_{i} - u)^{2} - E(n - u)^{2}$$

$$= \frac{1}{N} \cdot N \cdot \text{Var}(n_{i}) - \frac{\text{Var}(n_{i})}{N} = N - \frac{M}{N} = M(1 - \frac{1}{N})$$

$$= M \left(\frac{N-1}{N} \right) = E(\hat{a}_{ayon})$$

$$= M \left(\frac{N-1}{N} \right) = M(1 - \frac{N-1}{N})$$

$$= M \left(\frac{N-N+1}{N} \right) = M(1 - \frac{N-1}{N})$$

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Mount =
$$\frac{N}{N-1}$$
 Maxon

Fixed

Von (Maxon) = $\left(\frac{N}{N-1}\right)^2 \text{Von} (Mayon)$

Ipfl

= > $\text{Var} \left(\frac{1}{N}\text{axon}\right) = \left(\frac{N-1}{N}\right)^2 \text{Von} \left(\frac{1}{N}\text{axon}\right)$

= > $\text{Var} \left(\frac{1}{N}\text{axon}\right) = \left(\frac{N-1}{N}\right)^2 \text{Von} \left(\frac{1}{N}\text{axon}\right)$

= > $\text{Var} \left(\frac{1}{N}\text{axon}\right) = \left(\frac{N-1}{N}\right)^2 \left(\frac{1}{N} + \frac{2M^2}{N-1}\right)$

Maxon = $\frac{1}{N} \times M$; | $\text{Var} \left(\frac{1}{N}\text{axon}\right) = \frac{1}{N^2} \left(\frac{1}{N}\text{axon}\right)$

Var (Maxon) = $\frac{1}{N} \times M$; | $\text{Var} \left(\frac{1}{N}\text{axon}\right) = \frac{1}{N^2} \left(\frac{1}{N}\text{axon}\right)$

= $\frac{1}{N^2} \times \text{Var} \left(\frac{1}{N}\text{axon}\right) = \frac{1}{N^2} \times \frac{1}{N^2} = \frac{1}{N}$

```
clc;clear;clf;
N = [2,5,10,50,100];
M = 1000;
mu = 10;
r1 = poissrnd(mu, N(1), M);
r2 = poissrnd(mu, N(2), M);
r3 = poissrnd(mu, N(3), M);
r4 = poissrnd(mu,N(4),M);
r5 = poissrnd(mu,N(5),M);
mu_spike = [mean(r1);mean(r2);mean(r3);mean(r4);mean(r5)];
mu axon = [mean([r1-mu spike(1,:)].^2);mean([r2-mu spike(2,:)].^2);mean([r3-mu spi
mu_spike(3,:)].^2);mean([r4-mu_spike(4,:)].^2);mean([r5-mu_spike(5,:)].^2);];
mu_axon_fixed = [(N(1)/(N(1)-1)).*mu_axon(1,:);(N(2)/(N(2)-1))*mu_axon(2,:);
(N(3)/(N(3)-1))*mu_axon(3,:);(N(4)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(3)-1))*mu_axon(4,:);(N(5)/(N(3)-1))*mu_axon(3,:);(N(4)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(4)-1))*mu_axon(4,:);(N(5)/(N(5)/(N(5)-1))*mu_axon(5,:);(N(5)/(N(5)/(N(5)-1))*mu_axon(5,:);(N(5)/(N(5)/(N(5)-1))*mu_axon(5,:);(N(5)/(N(5)/(N(5)-1))*mu_axon(5,:);(N(5)/(N(5)/(N(5)-1))*mu_axon(5,:);(N(5)/(N(5)/(N(5)-1))*mu_axon(5,:);(N(5)/(N(5)/(N(5)-1))*mu_axon(5,:);(N(5)/(N(5)/(N(5)/(N(5)-1)))*mu_axon(5,:);(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/(N(5)/
(N(5)-1))*mu_axon(5,:)];
E_mu_spike = mean(mu_spike');
E_mu_axon = mean(mu_axon');
E_mu_axon_fixed = mean(mu_axon_fixed');
figure(1); plot([1:1000],mu_axon_fixed(1,:),[1:1000],mu_axon(1,:),
[1:1000], mu spike(1,:)); title("N = 2"); grid on; % N = 2
ylabel("Estimated {\mu}"); xlabel("Amount of Itterations through random
   function"); yline(mu, 'b--');
legend("{\mu} axon fixed","{\mu} axon","{\mu} spike");
figure(2); plot([1:1000], mu axon fixed(2,:),[1:1000], mu axon(2,:),
[1:1000], mu_spike(2,:)); title("N = 5"); grid on; % N = 5
ylabel("Estimated {\mu}"); xlabel("Amount of Itterations through random
   function"); yline(mu, "b--")
legend("{\mu} axon fixed","{\mu} axon","{\mu} spike");
figure(3); plot([1:1000], mu axon fixed(3,:),[1:1000], mu axon(3,:),
[1:1000], mu_spike(3,:)); title("N = 10"); grid on; % N = 10
ylabel("Estimated {\mu}"); xlabel("Amount of Itterations through random
   function"); yline(mu, "b--")
legend("{\mu} axon fixed","{\mu} axon","{\mu} spike");
figure(4); plot([1:1000],mu_axon_fixed(4,:),[1:1000],mu_axon(4,:),
[1:1000], mu_spike(4,:)); title("N = 50"); grid on; % N = 50
ylabel("Estimated {\mu}"); xlabel("Amount of Itterations through random
   function"); yline(mu, "b--")
legend("{\mu} axon fixed","{\mu} axon","{\mu} spike");
figure(5); plot([1:1000],mu_axon_fixed(5,:),[1:1000],mu_axon(5,:),
[1:1000],mu_spike(5,:)); title("N = 100"); grid on; % N = 100
ylabel("Estimated {\mu}"); xlabel("Amount of Itterations through random
   function"); yline(mu, "b--")
legend("{\mu} axon fixed","{\mu} axon","{\mu} spike");
figure(6);
subplot(311); stem(N,E_mu_spike); grid on;
```

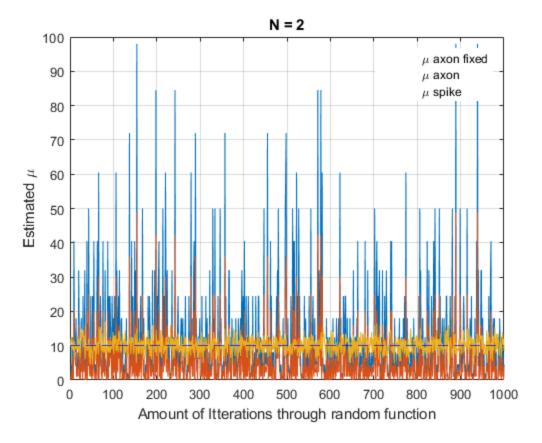
```
title("E({\mu}_s_p_i_k_e)"); xlabel("N"); ylabel("E({\mu})"); xticks([ 2 5 10
    50 100]); xticklabels({'N = 2', 'N = 5', 'N = 10', 'N = 50', 'N = 100'});
subplot(312); stem(N,E_mu_axon); grid on;
title("E({\mu} a x o n)"); xlabel("N"); ylabel("E({\mu})"); xticks([ 2 5 10 50
    100]); xticklabels({'N = 2','N = 5','N = 10', 'N = 50', 'N = 100'});
subplot(313); stem(N,E_mu_axon_fixed); grid on;
xticks([ 2 5 10 50 100]); xticklabels({'N = 2', 'N = 5', 'N = 10', 'N = 50', 'N
    = 100'};
B_mu_spike = mu - E_mu_spike;
B_mu_axon = mu - E_mu_axon;
B mu axon fixed = mu - E mu axon fixed;
var mu spike = var(mu spike');
var_mu_axon = var(mu_axon');
var_mu_axon_fixed = var(mu_axon_fixed');
mse spike vec = []; mse axon vec = []; mse axon fixed vec = [];
for i = [1:5]
                mse_spike_vec = [mse_spike_vec, immse(E_mu_spike(1,i),mu)];
                mse_axon_vec = [mse_axon_vec, immse(E_mu_axon(1,i),mu)];
                mse_axon_fixed_vec = [mse_axon_fixed_vec, immse(E_mu_axon_fixed(1,i),mu)];
end
figure(7); clf(7);
hold on; stem(N,B_mu_spike); stem(N,B_mu_axon); stem(N,B_mu_axon_fixed);
   grid on;
xlabel("N"); ylabel("B({\mu})"); xticks([ 2 5 10 50 100]); xticklabels({'N =
    2', N = 5', N = 10', N = 50', N = 100');
legend("{\mu} - E({\mu}_s_p_i_k_e)","{\mu} - E({\mu}_a_x_o_n)","{\mu} - E({\mu
    E(\{ \mathbf u \}_a x_o n _f i_x_e_d) ");
title("Bias for all Estimations"); hold off;
figure(8); clf(8);
hold on; stem(N,var_mu_spike); stem(N,var_mu_axon); stem(N,var_mu_axon_fixed);
    grid on;
xlabel("N"); ylabel("Var({\mu})"); xticks([ 2 5 10 50 100]); xticklabels({'N =
    2', N = 5', N = 10', N = 50', N = 100');
legend("Var({\mu}_s_p_i_k_e)","Var({\mu}_a_x_o_n)","Var({\mu}_a_x_o_n
    f i x e d)");
title("Variance for all Estimations"); hold off;
figure(9); clf(9)
hold on; stem(N, mse spike vec); stem(N, mse axon vec);
    stem(N,mse_axon_fixed_vec); grid on;
xlabel("N"); ylabel("MSE(\{\mu\})"); xticks([ 2 5 10 50 100]); xticklabels(\{'N = \mu\})"); xticklabels([ N = \mu]); xtickl
    2', N = 5', N = 10', N = 50', N = 100');
legend("MSE(\{\mu\}\_s\_p\_i\_k\_e)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu\}\_a\_x\_o\_n)","MSE(\{\mu]\_a\_x\_o\_n)","MSE(\{\mu]\_a\_x\_o\_n)","MSE(\{\mu]\_a\_x\_o\_n)","MSE(\{\mu]\_a\_x\_o\_n)","MSE(\{\mu]\_a\_x\_o\_n)","MSE(\{\mu]\_a\_x\_o\_n)","MSE(\{\mu]\_a\_x\_o\_n)","MSE(\{\mu]\_a\_x\_o\_n)","MSE(\{\mu]\_a\_x\_o\_n)","MSE(\{\mu]\_a\_x\_o\_n)","MSE(\{\mu]\_a\_x\_o\_n)","MSE(\{\mu]\_a\_x\_o\_n)","MSE(\{\mu]\_a\_x\_o\_n)","MSE(\{\mu]\_a\_x\_o\_n)","MSE(\{\mu]\_a\_x\_o\_n)","MSE(\{\mu]\_a\_x\_o\_n)","MSE(\{\mu]\_a\_x\_o\_n)","MSE(\{\mu]\_a\_x\_o\_n)
    _f_i_x_e_d)");
title("MSE for all Estimations"); hold off;
mse_spike_vec
mse_axon_fixed_vec
```

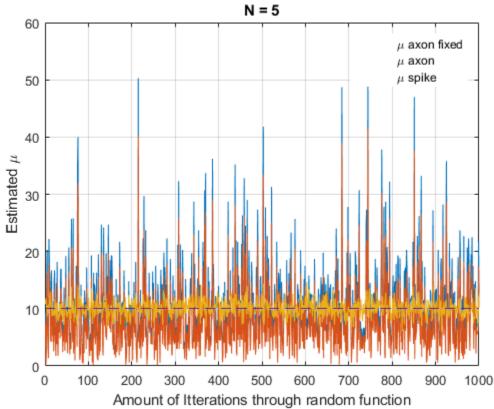
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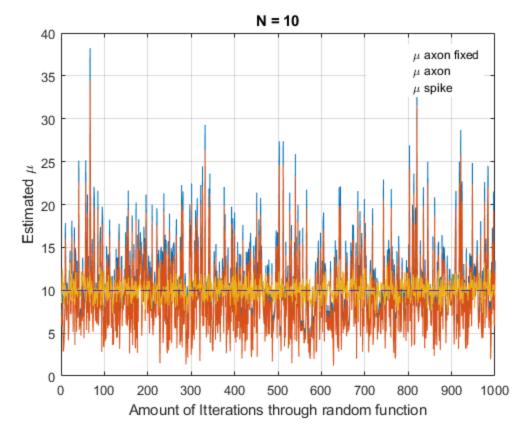
0.0025 0.0064 0.0000 0.0003 0.0002

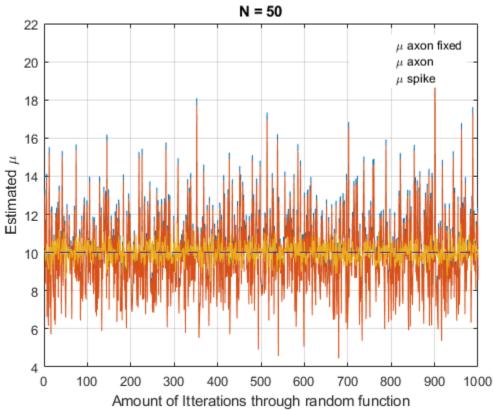
mse_axon_fixed_vec =

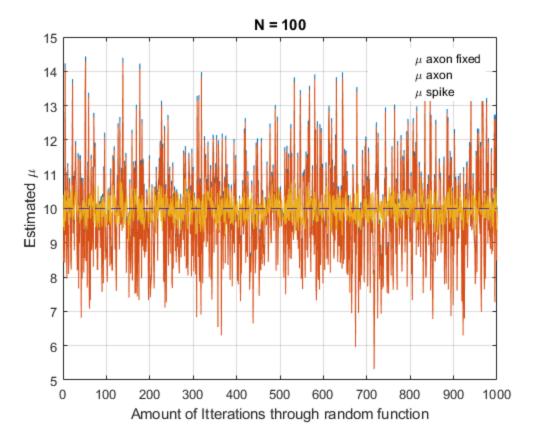
0.5952 0.0004 0.0255 0.0055 0.0113

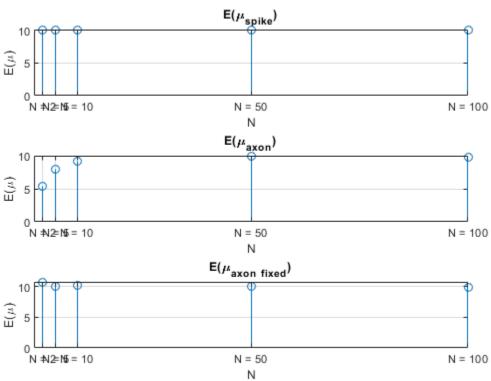


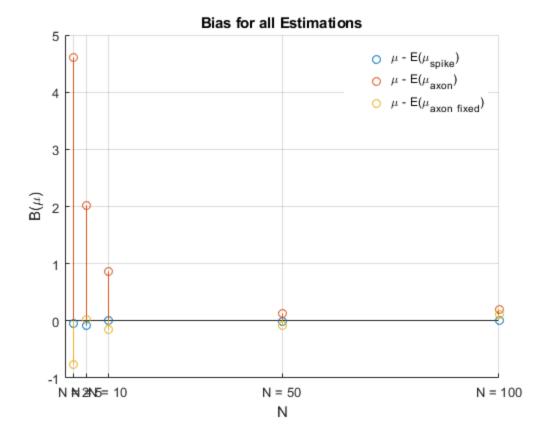


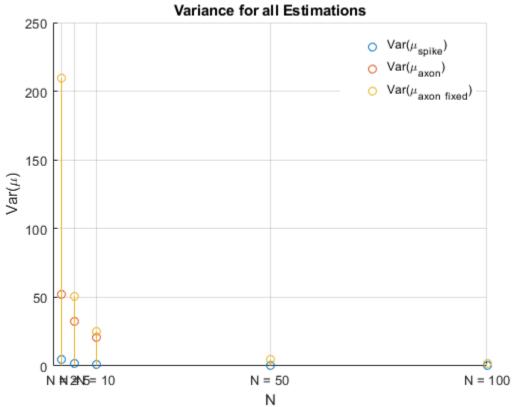


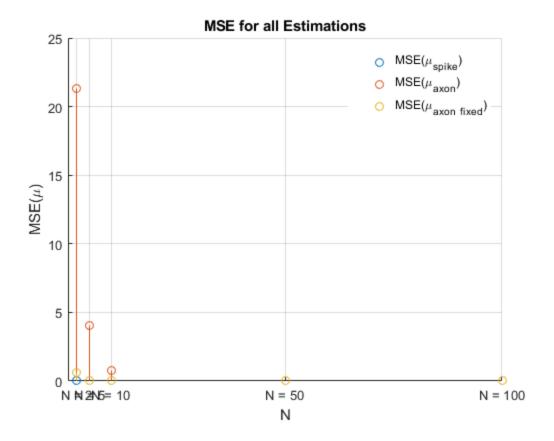












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128CM 8,00 (2) (2)1. 2 2(3)2. 2 3 V(2) Ni E (aspine) = M $E(uaxon) = n \cdot (\frac{N-1}{N})$ E (Maxon) = M N=(2,5,40,50,10)-1 N=10 1127 /26 $E(N_{spike}) = 10 \quad N \quad Los \quad N_{sp}$ $E(N_{axon}) = \begin{cases} \frac{7}{5} \cdot 10 = 5 \\ N = 2 \end{cases}$ N = 5 N = 6 N=100 E (Maxin) = 10 N St YIND MATLAB - 2 162, 10, 2012 (120) E(Maxon) = [4.812, 8,212, 8.8984, 9.7895, 9.9306] E (Mapn)=[9.625, 10,265, 9.8871, 9.5893, 10.0309] נית אראות ני ילת לבישות חילוק לאור לאור לאור לאור התקלה נמצופה.

15+1 iBias for) 20 CUD O NEN F MY NESTIND 3'8

(NO: UND: Vaxon LID NOI)

"NO: DIAZON (IC' GAIN)

"NO: Maxin Fixed NON

"Maxin Josepha NON 1/100 200 (1/100 2"/CAN 3% ربعار مرزمهام کود اور) از بردر Var (spino o n אההי) וי השנפים לבת יות תלה לפתח שנלושיציה (אההי) ישנפים לבתו לרשות ני מב אההי) וי השנפים של ניתן לרשות ני מב האהריים שה הוד החדלה (ווכף שחד הלב دی در ارسرار کور در وارد). ISINA OZIHNN JOSHI Bias ISINA 19626 (20 - 2410) - (Mar 2) 26361/2 एन निस्ति त पारी है। एवं निस्ति निरम्भे

121 mars 161 (186, 402 20) 161 Marion (186, 196) 161 Marion (186,